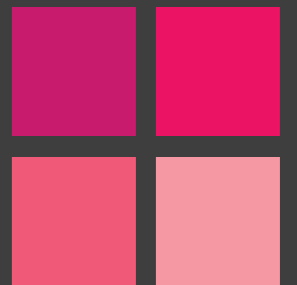


KERAMIČKE PLOČICE TILES

CERAMIC TILES PIASTRELLE DI CERAMICA CERAMIC
PIASTRELLE DI CERAMICA PIASTRELLE kolekcija/collection 2010
KERAMIČKE PLOČICE

KERAMIKA KANJIŽA PLUS
Horgoški put bb,
24420 Kanjiža
t: 024 873 093
f: 024 873 143
info@keramikaplus.rs
www.keramikaplus.rs

KERAMIKA
KANJIŽA
PLUS



®

Keramika Kanjiža Plus

Fabrika keramičkih pločica "KERAMIKA KANJIŽA PLUS" iz Kanjiže osnovana je 1980. godine i predstavlja nastavak bogate tradicije oplemenjivanja kvalitetne kanjiške gline stvorene u ciglarstvu, grnčarstvu i proizvodnji crepa.

Sa proizvodnjom od 3 miliona m² zidnih i podnih pločica godišnje, ova fabrika je za relativno kratko vreme postala najpoznatiji proizvođač regije. Na domaćem tržištu ima učešće od 25%. Osvajanje inostranih tržišta je cilj, postavljen od strane menadžmenta već na samom startu. Bilo je to opravdano s jedne strane zbog izrazite uvozne zavisnosti, a s druge strane prisutna je i težnja da se ljudi i proizvodi dokažu i osvoje određeni segment u jakoj evropskoj konkurenciji.

Sada se oko 35% proizvodnje izvozi, sa tendencijom rasta iz godine u godinu.

Uvažavajući činjenicu da povratak u evropske privredne tokove zahteva višestruko dokazivanje i dodatne napore, kao prioritetni cilj postavljeno je neprekidno praćenje tehnološkog razvoja,

stalna inovacija znanja, opreme i proizvodnog programa prema zahtevima tržišta. Razvoj proizvoda i tehničko-tehnološke inovacije na kojima se zasniva današnja proizvodnja jesu rezultat razvojnog rada stručnjaka fabrike. Maksimalno koristeći resurse i mogućnosti, u fazama je izvršena rekonstrukcija i modernizacija tehnoloških linija, tako da je proizvodnja i danas na evropskom nivou. U proteklom periodu pored zidnih i podnih keramičkih pločica osvojena je i serijska proizvodnja keramičke galanterije - listela, podnih bordura, dekorativnih elemenata itd. Asortiman pločica se razvijalo u pravcu proizvodnje serija (isti dekor i zidnih i podnih pločica u različitim bojama i dimenzijama i sa odgovarajućom galanterijom). Ovakvim asortimanom - nadamo se - mogu se zadovoljiti sve želje i zahtevi kupaca.



A factory for production of ceramic tiles "KERAMIKA KANJIŽA" of Kanjiža was founded in 1980. It is performing its business activities as a joint stock company and it produces 20% of tiles on the local market.

It continues a rich tradition of improving the good-quality clay of Kanjiža for production of brick products, roofing tiles and manufacture of earthenware. In relatively short period of time, this factory with a production of 3 million square meters of wall and floor tiles became the best-known producer in this region.

At the very beginning, a management body set the prime aim and that is to find a place on the foreign market. This is quite justified since on one side the local market depended from the import, and on the other hand there is a constant inclination of people to prove themselves and to conquer with their products certain segments in the tough European competition. Bearing in mind that the return into the European economic trends requires versatile proofs and additional efforts, their prime goal was to monitor constantly technological developments,

to improve their knowledge, equipment and production programme, so as to comply to the market requirements.

Further development of products, technical and technological innovations today's production is based upon, are the results of development accomplishments of the factory experts. By using their resources and potentials to the maximum extent, the reconstruction and modernization of the technological lines was carried out in several phases, so today the production is on the European level. In the past period, in addition to the wall and floor ceramic tiles, the factory mastered serial production of various ceramic products - tile ware, staircase elements, floor borders, ornamental elements, etc. The assortment of products developed towards production of series (the same design of wall and floor tiles, in various colours and dimensions, with corresponding miscellaneous products). We hope that with such assortment we can satisfy all requirements and wishes of our buyers.

CONDITIONS OF TILE PACKAGINGS

Porcelaine floor tiles Group B Ia

PACKAGING OF PORCELAINE FLOOR TILES	No.	Format	Thickness of tile (mm)	Tile/box	m ² /box	Weight of box (kg)	Box/pallet	m ² /pal.	Weight of pallet (kg)
-------------------------------------	-----	--------	------------------------	----------	---------------------	--------------------	------------	----------------------	-----------------------

	1	30 x 30	8,20	12	1,08	21,14	56	60,48	1150,0
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Floor tiles Group B Ib

PACKAGING OF FLOOR TILES	No.	Format	Thickness of tile (mm)	Tile/box	m ² /box	Weight of box (kg)	Box/pallet	m ² /pal.	Weight of pallet (kg)
	1	33 x 33	8,0	14	1,5	26,8	38	57,0	1040,0
	2	40 x 40	8,6	10	1,6	29,5	36	57,6	1080,0

Wall tiles Group B III

PACKAGING OF WALL TILES	No.	Format	Thickness of tile (mm)	Tile/box	m ² /box	Weight of box (kg)	Box/pallet	m ² /pal.	Weight of pallet (kg)
	1	25 x 37	8,6	14	1,3	19,2	51	66,3	1000,0
	2	20 x 20	6,9	25	1,0	12,4	92	92,0	1150,0

serija/series: **Amore** zidne i podne pločice / wall and floor tiles
 veličina/size: 25x37,33x33



Italia Nuova



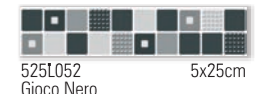
Amore Bianco 25x37cm



Amore Nero 25x37cm



325L043P
Compton Nero 3x25cm



525L052
Gioco Nero 5x25cm



825L054P
Flutto Nero Extra 8x25cm



637L054P
Flutto Nero 6x37cm



637L055P
Grazia Nero 6x37cm



Amore Bianco 33x33cm
PEI 4



Amore Nero 33x33cm
PEI 2



Amore

zidne i podne pločice / wall and floor tiles
veličina/size: 25x37, 33x33



Italia Nuova



Amore Blu 25x37cm



325L043P
Compton Blu 3x25cm



525L044P
Compton Blu 5x25cm



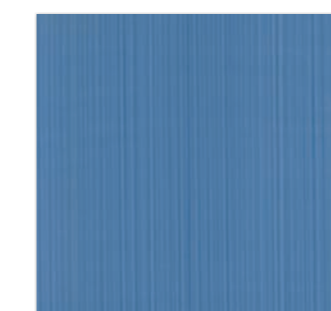
825L054P
Flutto Blu Extra 8x25cm



637L054P
Flutto Blu 6x37cm



637L055P
Grazia Blu 6x37cm



Amore Blu 33x33cm
PEI 3



Amore Arancio 25x37cm



325L043P
Compton Arancio 3x25cm



637L054P
Flutto Arancio 6x37cm



637L055P
Grazia Arancio 6x37cm



Amore Arancio 33x33cm
PEI 3



Amore Rosso 25x37cm



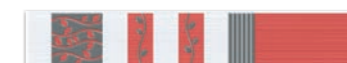
325L043P
Compton Rosso 3x25cm



Amore Nero
Charme 25x37cm



637L054P
Flutto Rosso 6x37cm



637L055P
Grazia Rosso 6x37cm



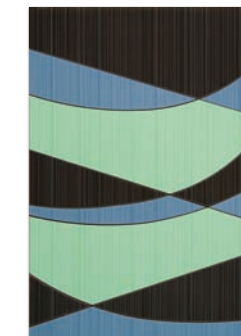
Amore Rosso 33x33cm
PEI 3



Amore Verde 25x37cm



325L043P
Compton Verde 3x25cm



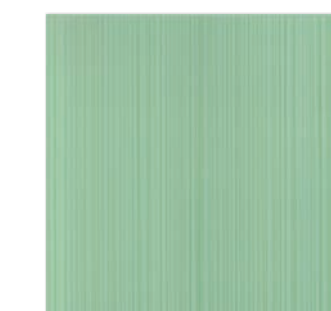
Amore Rosso
Charme 25x37cm



637L054P
Flutto Verde 6x37cm



637L055P
Grazia Verde 6x37cm



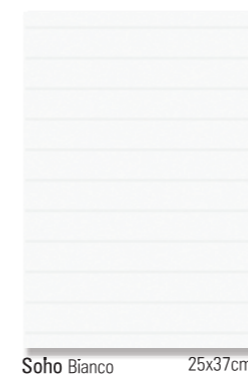
Amore Verde 33x33cm
PEI 3

serija/series: **Soho**

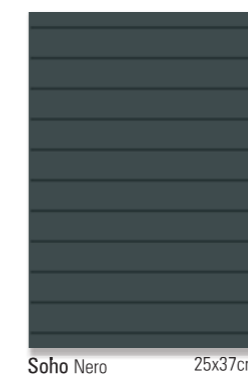
zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33



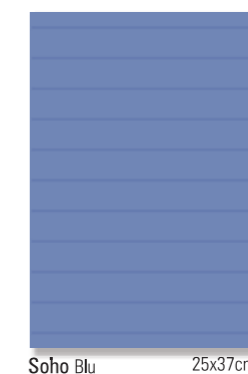
Italia Nuova



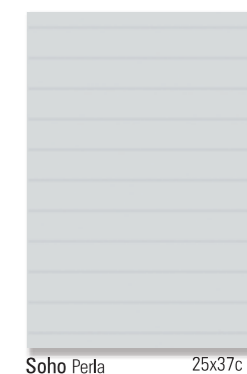
Soho Bianco 25x37cm



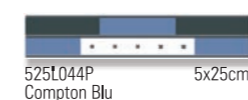
Soho Nero 25x37cm



Soho Blu 25x37cm



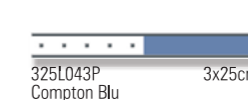
Soho Perla 25x37cm



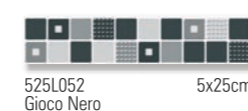
525L044P Compton Blu 5x25cm



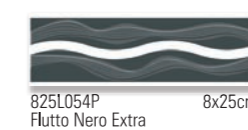
325L043P Compton Nero 3x25cm



325L043P Compton Blu 3x25cm



525L052 Gioco Nero 5x25cm



825L054P Flutto Nero Extra 8x25cm



825L054P Flutto Blu Extra 8x25cm



525L053P Arabesco 1 5x25cm



525L053P Arabesco 2 5x25cm



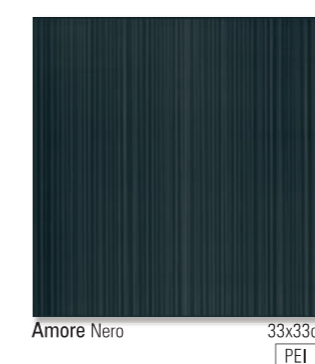
637L053P Arabesco 1 6x37cm



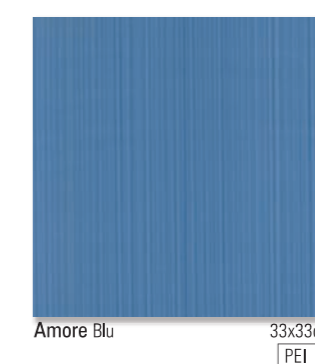
637L053P Arabesco 2 6x37cm



Amore Bianco 33x33cm PEI 4



Amore Nero 33x33cm PEI 2



Amore Blu 33x33cm PEI 3

serija/series: **Pelle**

zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33

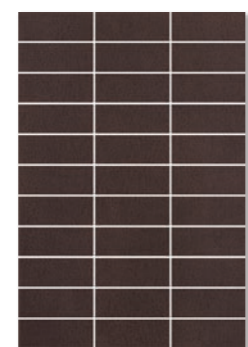


Italia Nuova



Italia Nuova

Pelle zidne i podne pločice / wall and floor tiles
 veličina/size: 25x37,33x33



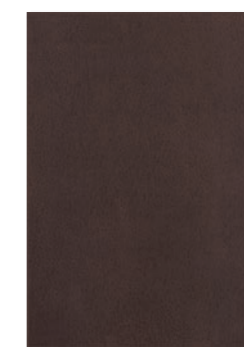
Mozaik Pelle Marrone 25x37cm



Mozaik Pelle Red 25x37cm



Pelle Beige 25x37cm



Pelle Marrone 25x37cm



Pelle Red 25x37cm



Mozaik Pelle Beige 25x37cm



Charme Pelle 25x37cm



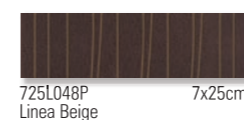
2537C050 Burberry 25x37cm



2537C049 Elisse 25x37cm



Rosa 2537C047 25x37cm



725L048P Linea Beige 7x25cm



625L050 Burberry 6x25cm



625L049 Elisse 6x25cm



537L048B Linea Marrone 5x37cm



637L050 Burberry 6x37cm



637L049 Elisse 6x37cm



837L047 Rosa 8x37cm



637L067 Kroko 6x37cm



625L067 Kroko 6x25cm



Pelle Beige 33x33cm PEI 2



Pelle Marrone 33x33cm PEI 2



Pelle Red 33x33cm PEI 2

serija/series: **Bambus** zidne i podne pločice /wall and floor tiles
veličina/size: 25x37,33x33



Fancy World



Bambus

zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33



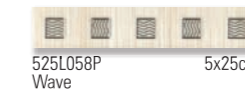
Fancy World



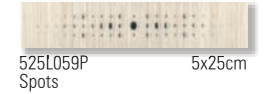
Bambus Beige 25x37cm



Bambus Dark 25x37cm



525L058P Wave 5x25cm



525L059P Spots 5x25cm



2537C061Z Pearl 25x37cm



1237C061Z Pearl 12x37cm



637L066Z Bambus Natura 6x37



537L058P Wave 5x37cm



537L059P Spots 5x37cm



725L061Z Pearl 7x25cm



625L066Z Bambus Natura 7x25cm



Bambus Beige 33x33cm PEI 3



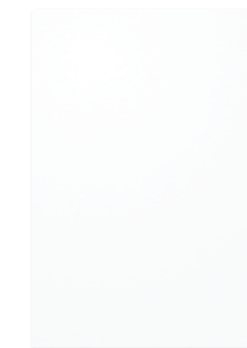
Bambus Dark 33x33cm PEI 2

serija/series: **Emma**

zidne i podne pločice / wall and floor tiles
 veličina/size: 25x37,33x33



Fancy World



Bela sjajna 25x37cm



Emma Lila 25x37cm



Emma Bianco 25x37cm



2537C060 Flowery 25x37cm



1237L060 Flowery 12x37cm



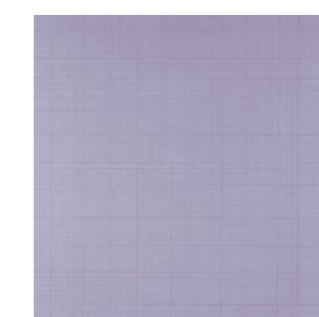
737L060 Flowery 7x37cm



725L060 Flowery 7x25cm



Emma Bianco 33x33cm
 PEI 3



Emma Bianco 33x33cm
 PEI 3



serija/series: **Carpet** zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33



Fancy World



Carpet

zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33



Fancy World



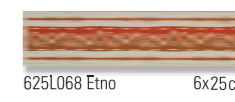
Carpet Latte 25x37cm



Carpet Caffè 25x37cm



625L069 Cord 6x25cm



625L068 Etno 6x25cm



637L068 Etno 6x37cm



637L069 Cord 6x37cm



Juta Beige 33x33cm
PEI 1



Juta Marrone 33x33cm
PEI 1

serija/series: **Natura** zidne i podne pločice / wall and floor tiles
 veličina/size: 25x37,33x33



Fancy World



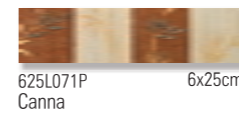
Natura Crema 25x37cm



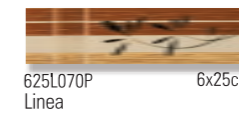
Natura Noce 25x37cm



Natura Arancio 25x37cm



625L071P Canna 6x25cm



625L070P Linea 6x25cm



637L071P Canna 6x37cm



637L070P Linea 6x37cm



Natura Crema 33x33cm
PEI 3



Natura Noce 33x33cm
PEI 1

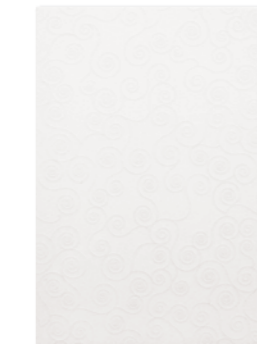


Natura Arancio 33x33cm
PEI 3

serija/series: **Grazia** zidne i podne pločice / wall and floor tiles
 veličina/size: 25x37,33x33



Fancy World



Grazia Uni 25x37cm



Grazia Bianca 25x37cm



2537C072P Henna Silver 25x37cm



2537C072P Henna Bianca 25x37cm



625L072P Henna Silver 6x25cm



625L072P Henna Bianca 6x25cm



225L073P Sugar Platinum 2x25cm



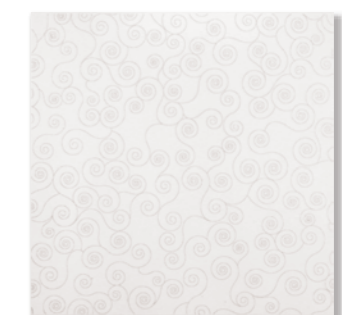
225L073Z Sugar Gold 2x25cm



637L072P Henna Silver 6x37cm



637L072P Henna Bianca 6x37cm



Grazia Bianca 33x33cm
 PEI 3

Grazia

zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33



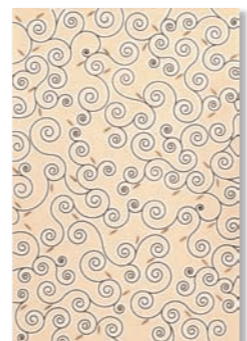
2537C072P
Henna Nera 25x37cm



2537C072P
Henna Blu 25x37cm



2537C072Z
Henna Gold 25x37cm

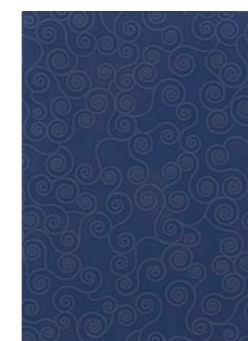


2537C072Z
Henna Beige 25x37cm

Fancy World



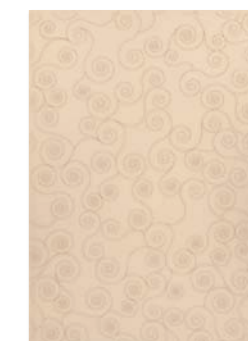
Grazia
Nera 25x37cm



Grazia
Blu 25x37cm



Grazia
Gold 25x37cm



Grazia
Beige 25x37cm



625L072P
Henna Nera 6x25cm



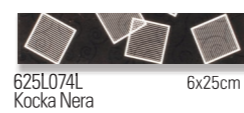
625L072P
Henna Blu 6x25cm



625L072Z
Henna Gold 6x25cm



625L072Z
Henna Beige 6x25cm



625L074L
Kocka Nera 6x25cm



625L072P
Kocka Blu 6x25cm



625L074L
Kocka Gold 6x25cm



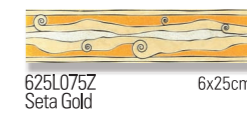
625L074L
Kocka Beige 6x25cm



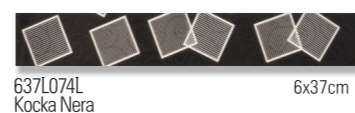
625L075P
Seta Nera 6x25cm



625L075P
Seta Blu 6x25cm



625L075Z
Seta Gold 6x25cm



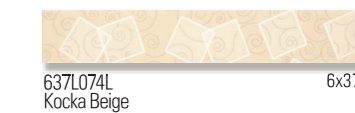
637L074L
Kocka Nera 6x37cm



637L072P
Henna Blu 6x37cm



637L074L
Kocka Gold 6x37cm



637L074L
Kocka Beige 6x37cm



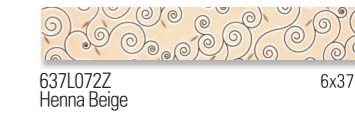
637L072P
Henna Nera 6x37cm



637L072P
Kocka Blu 6x37cm



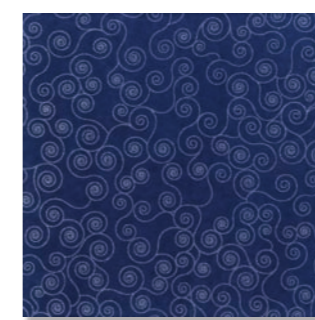
637L072Z
Henna Gold 6x37cm



637L072Z
Henna Beige 6x37cm



Grazia
Nera 33x33cm
PEI 1



Grazia
Blu 33x33cm
PEI 1



Grazia
Gold 33x33cm
PEI 3



Grazia
Beige 33x33cm
PEI 3

serija/series: **Alberti** zidne i podne pločice / wall and floor tiles
veličina/size: 25x37,33x33



Classic



serija/series: **Alberti** zidne i podne pločice / wall and floor tiles
 veličina/size: 25x37,33x33



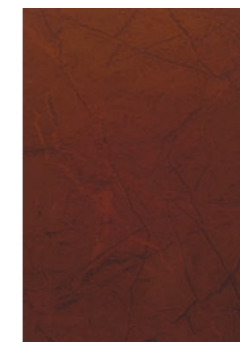
Classic



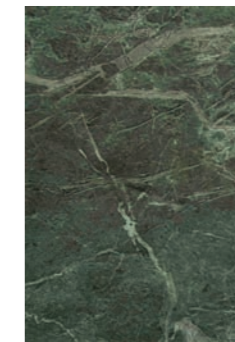
Alberti Crema 25x37cm



Alberti Rosso 25x37cm



Alberti Bordo 25x37cm



Alberti Oliva 25x37cm



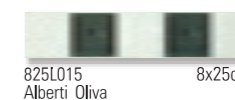
Alberti Adria 25x37cm



825L015 Alberti Rosso 8x25cm



825L015 Alberti Bordo 8x25cm



825L015 Alberti Oliva 8x25cm



825L015 Alberti Adria 8x25cm



525L056P Alberti Rosso 5x25cm



525L056P Alberti Bordo 5x25cm



525L056P Alberti Oliva 5x25cm



525L056P Alberti Adria 5x25cm



537L056P Alberti Rosso 5x37cm



537L056P Alberti Bordo 5x37cm



537L056P Alberti Oliva 5x37cm



537L056P Alberti Adria 5x37cm



725L065Z Gold 7x25cm



725L065P Silver 7x25cm



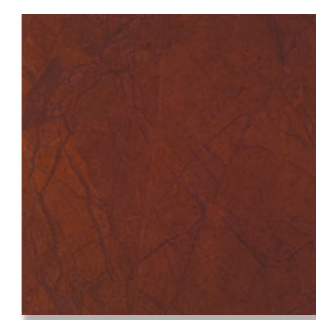
Imperia 25x37cm



Alberti Crema 33x33cm PEI 3



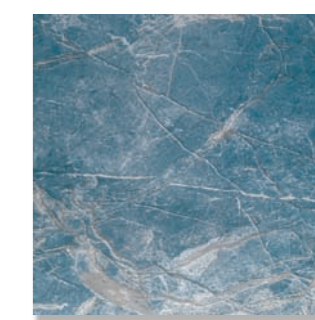
Alberti Rosso 33x33cm PEI 3



Alberti Bordo 33x33cm PEI 2



Alberti Oliva 33x33cm PEI 2

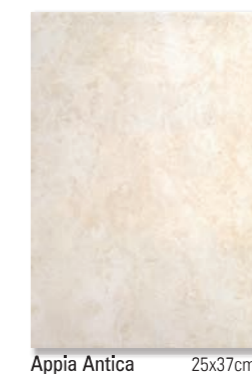


Alberti Adria 33x33cm PEI 3

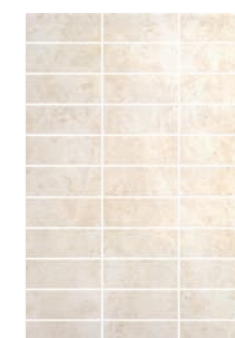
serija/series: **Appia antica** zidne i podne pločice /wall and floor tiles
 veličina/size: 25x37,33x33



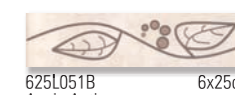
Classic



Appia Antica 25x37cm



Mozaik Appia Antica 25x37cm



625L051B Appia Antica 6x25cm



825L025 8x25cm



825L042B Appia Antica 8x25cm



825L037 Beige Rustic 8x25cm



Appia Antica 33x33cm
PEI 4



165330B103 bez 16,5x33cm



165330B104 bez 16,5x33cm



165165U103 bez 16,5x16,5cm



165165U104 bez 16,5x16,5cm

serija/series: **Kuhinjski program**

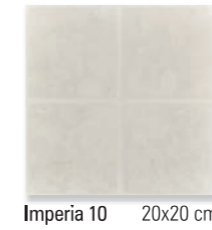
zidne pločice / wall tiles
veličina/size: 20x20



Classic



Universo 10 20x20 cm



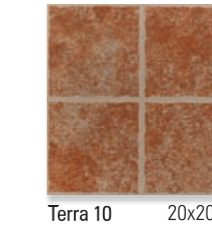
Imperia 10 20x20 cm



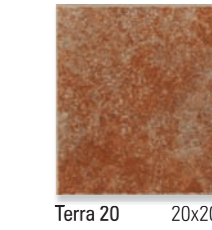
Dora 10 20x20 cm



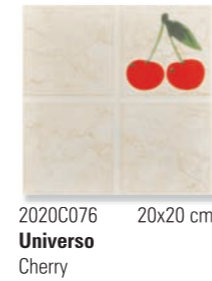
Dora 20 20x20 cm



Terra 10 20x20 cm



Terra 20 20x20 cm



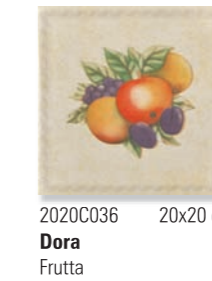
2020C076
Universo
Cherry



2020C076
Imperia
Cherry



2020C037
Dora Beige
Rustic



2020C036
Dora
Frutta



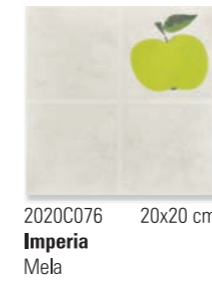
2020C037
Terra
Beige Rustic



2020C036
Terra
Frutta



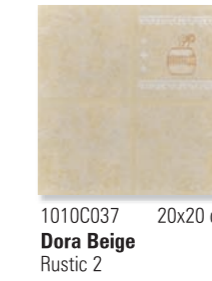
2020C076
Universo
Mela



2020C076
Imperia
Mela



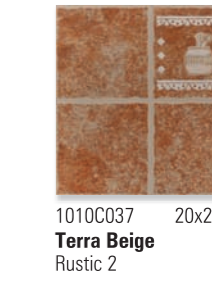
1010C037
Dora Beige
Rustic 1



1010C037
Dora Beige
Rustic 2



1010C037
Terra Beige
Rustic 1



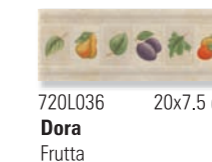
1010C037
Terra Beige
Rustic 2



720L036
Bela
Frutta



720L037
Dora Beige
Rustic



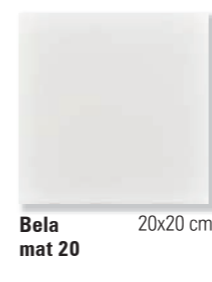
720L036
Dora
Frutta



720L037
Terra Beige
Rustic



720L036
Terra
Frutta



Bela
mat 20
20x20 cm



2020C036
Bela
Frutta



2020C037
Bela Siva
Rustic



720L037
Bela Siva
Rustic

Podne pločice

Granito podne pločice / floor tiles veličina/size: 33x33



Granito Grigio 33x33cm
PEI 2



Granito Nero 33x33cm
PEI 2



Granito Beige 33x33cm
PEI 4



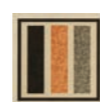
Granito Terracotta 33x33cm
PEI 2



100330B110
Cubic
10x33cm



100330B109
Romano
10x33cm

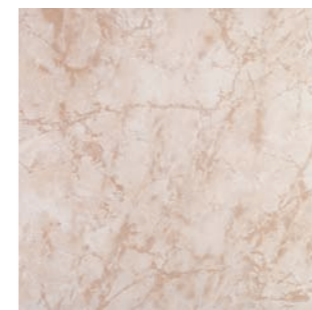


00100U110
Cubic
10x10cm



100100U109
Romano
10x10cm

Madrid podne pločice / floor tiles veličina/size: 33x33



Madrid bež 33x33cm
PEI 3



Madrid braon 33x33cm
PEI 3

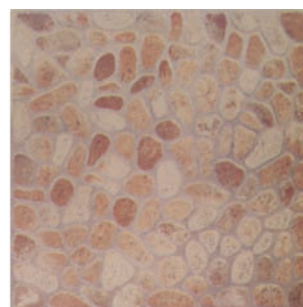
Podne pločice

Gotica/Colorado

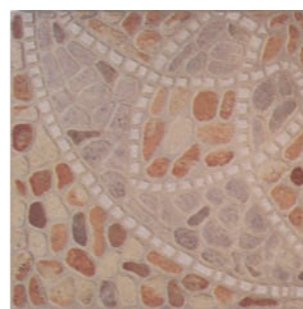
podne pločice / floor tiles
veličina/size: 33x33



Gotica Rosso 33x33cm PEI 3



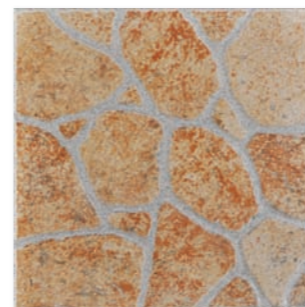
Colorado Uni 33x33cm PEI 4



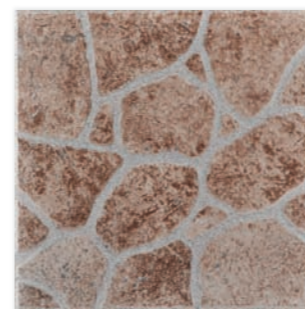
Colorado Dekor 33x33cm PEI 4



Ararat siva 33x33cm PEI 4



Roccia Rossa 33x33cm PEI 3



Roccia Mocca 33x33cm PEI 3

Ararat/Roccia

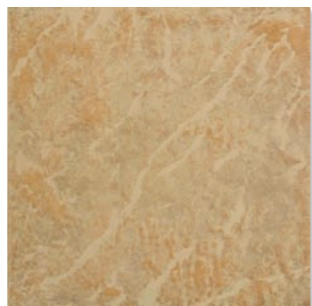
podne pločice / floor tiles
veličina/size: 33x33



Podne pločice

Natural stone/Riolit

podne pločice / floor tiles
veličina/size: 33x33



Natural Stone 33x33cm
PEI 3



Riolit 33x33cm
PEI 3



Riolit Uni 33x33cm
PEI 3



Stena 33x33cm
PEI 4



Pompei 33x33cm
PEI 3



165330B105 Pompei
16,5x33cm



165165U105 Pompei
16,5x16,5cm

Stena/Pompei

podne pločice / floor tiles
veličina/size: 33x33



Podne pločice

Bologna

podne pločice / floor tiles
veličina/size: 33x33



Bologna 33x33cm
PEI 2



165165U101 Bordo-bež 16,5x33cm



165330B101 Bordo-bež 16,5x16,5cm



Cotto Toscano 33x33cm
PEI 4



165330B103 Cotto 16,5x33cm



165330B104 Cotto 16,5x33cm



165165U103 Cotto 16,5x16,5cm



165165U104 Cotto 16,5x16,5cm

Cotto Toscano

podne pločice / floor tiles
veličina/size: 33x33



Podne pločice

serija/series: **Kerastar** podne pločice / floor tiles
veličina/size: 30x30



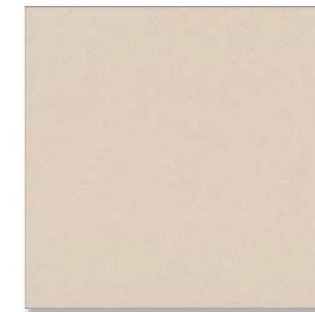
gres *ljne* kerastar



Cronos 30x30 cm



Priamus 30x30 cm



Perseas 30x30 cm



Athena 30x30 cm



Triton 30x30 cm



Tehničke karakteristike

TEHNIČKE KARAKTERISTIKE

„Keremika Kanjiža Plus“ doo iz Kanjiže proizvodi suvo presovane, jednom pečene podne i zidne keramičke pločice (takozvanu monokoturu i monoporožu) kao i ukrasnu galanteriju. Podne pločice su otporne na mraz, pogodne su za postavljanje spolja. Naše keramičke pločice u svim segmentima ispunjavaju zahteve harmonizovanog evropskog standarda SRPS EN 14411.

STANDARDI

Od decembra 2005. godine primenjuje se standard SRPS EN 14411, objavljen uz dozvolu Evropskog komiteta za standardizaciju CEN. Ovaj standard je identičan međunarodnom standardu EN 14411 koji se obavezno primenjuje u svim članicama evropske unije. CE-znak je simbol usaglašenosti proizvoda, izrađenog u skladu sa harmonizovanim standardom koji ispunjava bitne zahteve direktive za građevinske proizvode.

SRPS EN 14411 Keramičke pločice – Definicije, klasifikacija, karakteristike i obeležavanje – Definiše termine i utvrđuje klasifikacije, karakteristike i zahteve za obeležavanje keramičkih pločica najboljeg komercijalnog kvaliteta (prva klasa).

Prema standardu keramičke pločice se uvrstavaju u grupe prema načinu proizvodnje i upijanju vode.

Podela prema načinu proizvodnje:

- Grupa A Vučene (ekstrudirane) keramičke pločice
- Grupa B Suvo presovane pločice
- Grupa C Pločice proizvedene drugim postupkom

Podela prema upijanju vode:

- Ia Upijanje vode manje od 0,5%
- Ib Upijanje vode od 0,5 do 3%
- IIa Upijanje vode od 3 do 6%
- IIb Upijanje vode od 6 do 10%
- III Upijanje vode preko 10%

Podela prema prirodi vidne površine:

- Glazirane (GL)
- Neglazirane (UGL)

Proizvodi "Keremika Kanjiža Plus" dele se u sledeće grupe:

- GRES podne pločice Grupa B Ia
- Podne pločice Grupa B Ib
- Zidne pločice Grupa B III

U prilogima standarda SRPS EN 14411 od A do L, za svaku grupu proizvoda su dati minimalni tehnički zahtevi u pogledu mera i kvaliteta vidne površine kao i fizičkih i hemijskih svojstva.

- Grupa B Ia Prilog G
- Grupa B Ib Prilog H
- Grupa B III Prilog L

Metode ispitivanja korišćene za određivanje karakteristika proizvoda su opisane u standardima SRPS ISO 10545.

SRPS ISO 10545-1 Uzimanje uzoraka i osnove za prihvatanje – Ovaj standard utvrđuje broj uzoraka koje treba proveriti iz partije i maksimalni broj dozvoljenih grešaka.

SRPS ISO 10545-2 Određivanje mera i kvaliteta vidne površine – Ovim standardom utvrđuje se metoda za određivanje mernih karakteristika (dužina, širina, debljina, pravost stranica, odstupanje od pravog ugla, ravnost površine) i kvalitet površine keramičkih pločica.



- SRPS ISO 10545-3** **Određivanje upijanja vode, prividne poroznosti, prividne relativne zapreminske mase i zapreminske mase** – Ovim ispitivanjem se utvrđuje metoda za određivanje upijanja vode i prividne poroznosti keramičkih pločica.
- SRPS ISO 10545-4** **Određivanje modula loma pri savijanju i čvrstoće pri lomu** – Utvrđuje metodu ispitivanja za određivanje čvrstoće pri lomu. Dobijeni podatak ukazuje na opterećenje koju pločica može podneti.
- SRPS ISO 10545-7** **Određivanje otpornosti glaziranih pločica prema površinskom habanju** – Ocenjuje otpornost glazure prema površinskom habanju. Postupak se vrši rotiranjem sredstva za habanje i ocenjivanjem delovanja habanja, vizuelnim poređenjem pločica izloženih habanju i pločica koje nisu bile izložene habanju. Ocenjivanje proizvoda se vrši od 0 do 5, u zavisnosti od broja obrtaja rotirajućeg sredstva i pojave oštećenja (5 je najviša klasa otpornosti glaziranih pločica prema površinskom habanju).
- SRPS ISO 10545-8** **Određivanje linearnog termičkog širenja** – Određuje se koeficijent linearnog termičkog širenja za opseg od sobne temperature do 100 °C. Vrednost pokazuje u kojoj meri će se postavljena pločica širiti usled temperaturnih promena. Ovaj podatak treba da se uzme u obzir prilikom određivanja debljine fuge između pločica.
- SRPS ISO 10545-9** **Određivanje otpornosti prema temperaturnom šoku** – Pločica se izlaže nagloj promeni temperature i nakon toga se proverava pojava oštećenja.
- SRPS ISO 10545-10** **Određivanje širenja vlaženjem** – Ovim standardom se utvrđuje metoda za određivanje širenja keramičkih pločica vlaženjem. Podatak pomaže prilikom dimenzionisanja fuge između pločica.
- SRPS ISO 10545-11** **Određivanje otpornosti prema vlasavosti glaziranih pločica** – Vršiti se proveru pojave pukotina na površini glazirane pločice nakon tretiranja sa parom na pritisku od 500 kPa i temperaturi od 159 °C, dva sata u autoklavu.
- SRPS ISO 10545-12** **Određivanje otpornosti prema mrazu** – Po ovoj metodi pločice se izlažu smrzavanju i otapanju u temperaturnom opsegu od -5 °C do +5 °C, najmanje 100 ciklusa. Ovo ispitivanje simulira ponašanje proizvoda u spoljašnjim klimatskim uslovima.
- SRPS ISO 10545-13** **Određivanje otpornosti prema hemikalijama** – Ovim ispitivanjem se utvrđuje otpornost pločica prema dejstvu hemikalija za domaćinstvo, soli u vodi bazena za plivanje, kiselina, baza i otpornost prema dejstvu olovke HB tvrdoće. U zavisnosti od vrste hemikalija i otpornosti pločice se dele u sledeće klase:
Hemikalije za domaćinstvo i soli u vodi bazena za plivanje:
 GA bez vidljivih efekata
 GB male promene u izgledu ili ako pločice nisu prošle test olovke HB tvrdoće
 GC značajne promene
Kiseline i baze (malih koncentracija)
 GLA bez vidljivih efekata
 GLB male promene u izgledu ili ako pločice nisu prošle test olovke HB tvrdoće
 GLC značajne promene
Kiseline i baze (velikih koncentracija)
 GHA bez vidljivih efekata
 GHB male promene u izgledu ili ako pločice nisu prošle test olovke HB tvrdoće
 GHC značajne promene
- SRPS ISO 10545-14** **Određivanje otpornosti prema stvaranju mrlja** – Vidna površina pločice se dovodi u kontakt sa sredstvom za stvaranje mrlja, nakon odstranjivanja vrši se klasifikacija. Klasifikacija se vrši od 5 do 1 u zavisnosti od lakoće uklanjanja mrlje, pri čemu se kod klase 5 najlakše ulanja mrlja.
- SRPS U.F2.011** **Završni radovi u građevinarstvu – Izvođenje keramičarskih radova** – Standard utvrđuje postupak za oblaganje zidova, podova keramičkim pločicama u unutrašnjosti objekta i spolja.

PREPORUKE PRILIKOM UGRADNJE

- Pre ugradnje pločice treba uroniti u vodu radi boljeg prijanjanja za podlogu.
- Shodno standardu SRPS U.F2.011 pločice obavezno postaviti sa fugom. Minimalna fuga za zidne pločice je 3 mm, a za podne pločice je 4 mm.
- Podloga za postavljanje pločica treba da bude suva (ne sveže malterisana) i bez strukturnih pukotina.
- Prilikom kupovine pločica obavezno obratiti pažnju na oznaku kalibra i nijanse. U jednoj prostoriji postavljati isključivo pločice iste oznake kalibra i nijanse.
- Za pločice rustikalnog tipa karakteristična je razlika u nijansi. Pre postavljanja pločica preporučljivo je slaganje nekoliko m² kombinovanjem nijansi prema ukusu kupca.

GRES PODNE PLOČICE 30 × 30 cm SRPS EN 14411, grupa B Ia, prilog G

Osobina	Metoda ispitivanja	Tolerancija	
		SRPS EN 14411	KK+
Dužina i širina	SRPS ISO 10545-2	± 0,50 %	± 0,35 %
Debljina	SRPS ISO 10545-2	± 5,00 %	± 2,50 %
Odstupanje od pravog ugla	SRPS ISO 10545-2	± 0,60 %	± 0,50 %
Ravnost stranica	SRPS ISO 10545-2	± 0,50 %	± 0,30 %
Upijanje vode	SRPS ISO 10545-3	≤ 0,50 %	< 0,10 %
Čvrstoća pri lomu	SRPS ISO 10545-4	min 1300 N	> 3100 N
Modul loma pri savijanju	SRPS ISO 10545-4	min 35 N/mm ²	> 50 N/mm ²
Otpornost prema dubokom habanju	SRPS ISO 10545-6	max 175 mm ³	≤ 95 mm ³
Koeficijent linearnog termičkog širenja	SRPS ISO 10545-8	Postoji metoda ispitivanja	3,5×10 ⁻⁶ K ⁻¹
Otpornost prema temperaturnom šoku	SRPS ISO 10545-9	Postoji metoda ispitivanja	Odgovara
Otpornost prema vlasavosti	SRPS ISO 10545-11		
Otpornost prema mrazu	SRPS ISO 10545-12	Zahteva se	Garantovana otpornost
Otpornost prema hemikalijama u domaćinstvu	SRPS ISO 10545-13	Najmanje UB	
Otpornost prema stvaranju mrlja	SRPS ISO 10545-14	Postoji metoda ispitivanja	Klasa 3

PODNE PLOČICE - MONOKOTURA
SRPS EN 14411, grupa B Ib, prilog H

Osobina	Metoda ispitivanja	Tolerancija	
		SRPS EN 14411	KK+
Dužina i širina	SRPS ISO 10545-2	± 0,5 %	± 0,3 %
Debljina	SRPS ISO 10545-2	± 5,0 %	± 2,5 %
Odstupanje od pravog ugla	SRPS ISO 10545-2	± 0,6 %	± 0,3 %
Ravnost stranica	SRPS ISO 10545-2	± 0,5 %	± 0,2 %
Ravnost površine	SRPS ISO 10545-2	± 0,5 %	+ 0,2 / - 0.1 %
Kvalitet površine	SRPS ISO 10545-2	min 95% bez vidljivog oštećenja	
Upijanje vode	SRPS ISO 10545-3	< 3,0 %	< 2,80 %
Čvrstoća pri lomu	SRPS ISO 10545-4	> 1100 N	> 1200 N
Modul loma pri savijanju	SRPS ISO 10545-4	≥ 30 N/mm ²	> 40 N/mm ²
Otpornost prema habanju	SRPS ISO 10545-7	klasa habanja se deklarirše za svaki proizvod	
Koeficijent linearnog termičkog širenja	SRPS ISO 10545-8	Postoji metoda ispitivanja	7×10 ⁻⁶ K ⁻¹
Otpornost prema temperaturnom šoku	SRPS ISO 10545-9	Postoji metoda ispitivanja	Odgovara
Otpornost prema vlasavosti	SRPS ISO 10545-11	Zahteva se	Odgovara
Otpornost prema mrazu	SRPS ISO 10545-12	Zahteva se	Odgovara
Otpornost prema hemikalijama u domaćinstvu	SRPS ISO 10545-13	Najmanje GB	GA
Otpornost prema stvaranju mrlja	SRPS ISO 10545-14	Najmanje klasa 3	Klasa 5

ZIDNE PLOČICE – MONOPOROZA
SRPS EN 14411, grupa B III, prilog L

Osobina	Metoda ispitivanja	Tolerancija	
		SRPS EN 14411	KK+
Dužina i širina	SRPS ISO 10545-2	± 0,5 %	± 0,3 %
Debljina	SRPS ISO 10545-2	± 10,0 %	± 2,5 %
Odstupanje od pravog ugla	SRPS ISO 10545-2	± 0,5 %	± 0,3 %
Ravnost stranica	SRPS ISO 10545-2	± 0,3 %	± 0,2 %
Ravnost površine	SRPS ISO 10545-2	+ 0,5 %/- 0,3 %	+ 0,25 % /- 0,1 %
Upijanje vode	SRPS ISO 10545-3	> 10,00 %	> 14,00 %
Čvrstoća pri lomu	SRPS ISO 10545-4	> 600 N	> 750 N
Modul loma pri savijanju	SRPS ISO 10545-4	> 12 N/mm ²	> 19 N/mm ²
Otpornost prema habanju	SRPS ISO 10545-7		
Koeficijent linearnog termičkog širenja	SRPS ISO 10545-8	Postoji metoda ispitivanja	7×10 ⁻⁶ K ⁻¹
Otpornost prema temperaturnom šoku	SRPS ISO 10545-9	Postoji metoda ispitivanja	Odgovara
Otpornost prema vlasavosti	SRPS ISO 10545-11	Zahteva se	Odgovara
Otpornost prema mrazu	SRPS ISO 10545-12		
Otpornost prema hemikalijama u domaćinstvu	SRPS ISO 10545-13	Najmanje GB	GA
Otpornost prema stvaranju mrlja	SRPS ISO 10545-14	Najmanja klasa 3	Klasa 5

SPECIFIKACIJA PAKOVANJA PLOČICA

GRES PODNE PLOČICE GRUPE B Ia

PAKOVANJE GRES PODNIH PLOČICA	Redni broj	Format	Debljina pločica (mm)	Komada pločica u kutiji	m ² /kut.	Masa kutije (kg)	Komada kut.na paleti	m ² /pal.	Masa palete (kg)
	1	30 x 30	8,2	12	1,08	21,14	56	60,48	1150,0

PODNE PLOČICE GRUPE B Ib

PAKOVANJE PODNIH PLOČICA	Redni broj	Format	Debljina pločica (mm)	Komada pločica u kutiji	m ² /kut.	Masa kutije (kg)	Komada kut.na paleti	m ² /pal.	Masa palete (kg)
	1	33 x 33	8,0	14	1,5	26,8	38	57,0	1040,0
	2	40 x 40	8,6	10	1,6	29,5	36	57,6	1080,0

ZIDNE PLOČICE GRUPE B III

PAKOVANJE ZIDNIH PLOČICA	Redni broj	Format	Debljina pločica (mm)	Komada pločica u kutiji	m ² /kut.	Masa kutije (kg)	Komada kut.na paleti	m ² /pal.	Masa palete (kg)
	1	25 x 37	8,6	14	1,3	19,2	51	66,3	1000,0
	2	20 x 20	6,9	25	1,0	12,4	92	92,0	1150,0

TECHNICAL CHARACTERISTICS

„Keremika Kanjiža Plus“ doo based in Kanjiža is manufacturing extruded glazed floor and wall tiles , (monoporosa and monocottura), as well as ceramic decors. The floor tiles are frost resistant and are suitable for outdoor flooring. All our ceramic tiles conform to the European Standards SRPS EN 14411.

STANDARDS

The Standard SRPS EN 14411, issued by the European Committee for Standardization (CEN) has been applied since the year of 2005. This standard is identical with the International Standard EN 14411, which has to be adopted in the member states of the European Union. CE marking certifies that our ceramic tiles conform to the essential requirements set out in European Directives regarding construction materials.

SRPS EN 14411 Ceramic tiles – Definition, classification, characteristics and marking criteria – Defines and establishes the marking criteria, terms and requirements for the best quality commercial ceramic tiles (first class).

Standard EN 14111 classifies ceramic tiles in groups depending on the way of production and level of water absorption.

The below sub-groups depend on the production process:

Group A Ceramic tiles shaped by extruding.

Group B Ceramic tiles shaped by pressing.

Group C Ceramic tiles shaped by other proceedings.

The following sub-groups depend on the level of water absorption:

Ia Water absorption less than 0,5%

Ib Water absorption between 0,5 and 3%

IIa Water absorption between 3 and 6%

IIb Water absorption between 6 and 10%

III Water absorption greater than 10%

Sub-groups according to the nature of the visible surface:

Glazed (GL)

Unglazed (UGL)

The products of "Keramika Kanjiža Plus" belong to the following groups:

Porcelain floor tiles Group B Ia

Floor tiles Group B Ib

Wall tiles Group B III

The different appendices of Standard EN 14411 from A to L, describe the minimum technical characteristics (physical, such as dimensional tolerances, and chemical, such as resistance to different agents)

Group B Ia Appendix G

Group B Ib Appendix H

Group B III Appendix L

The testing methods for determining the characteristics of the tiles are described in Standard SRPS ISO 10545.

SRPS ISO 10545-1 Sampling and basis for acceptance – This establishes the number of pieces to be checked in a batch and the maximum permitted number of errors.

SRPS ISO 10545-2 Determination of dimensions and surface quality – This establishes the measuring systems for the dimensional characteristics of the pieces (length, width, thickness, straightness of sides, rectangularity, surface flatness) and the quality of the surface.

SRPS ISO 10545-3 Determination of water absorption – This test determines the apparent porosity of the interior of the pieces.

SRPS ISO 10545-4 Determination of modulus of rupture and breaking strength – This test determines the specific and absolute breaking strength indicating the load level that a product can support.

SRPS ISO 10545-7 Determination of glazed tiles' resistance to surface abrasion – It evaluates resistance to visible wear. An abrasive load acts upon the surface of the tile. The comparison are made with pieces not subjected to testing. The product is classified on a scale from 1 to 5 (5 is for the greatest resistance).

SRPS ISO 10545-8 Determination of linear thermal expansion – This standard measures the coefficient of expansion between room temperature and 100°C. It indicates how much an installed piece will be moved due to temperature changes. This data must be taken into account to evaluate the grout joints.

SRPS ISO 10545-9 Determination of resistance to thermal shock – The slab is subjected to a brusque change in temperature and then checked for cracks.

SRPS ISO 10545-10 Determination of moisture expansion – This measures the moisture expansion of the slab. This data helps in the dimensioning of the grout joints.

SRPS ISO 10545-11 Determination of crazing resistance – A study is made of the cracks that appear after placing the pieces in an autoclave with steam at a pressure of 500 kPa (steam temperature of 159 °C) for a period of 2 hours.

SRPS ISO 10545-12 Determination of frost resistance – The pieces are subjected to 100 freezing-thawing cycles between -5 °C and +5 °C. It stimulates the performance of the material when installed outside in adverse climatic conditions.

SRPS ISO 10545-13 Determination of chemical resistance – The tiles are subjected to different concentrations of various chemical products for controlled periods of time (acids, bases, cleaning products, swimming pool water additives, effect of HB pencil firmness, etc.). Depending on the type of agent and test level they are classified as:

Domestic cleaning products and swimming pool water additives:

GA unaffected

GB slight change in appearance

GC appearance modification

Acids and base (low concentration)

GLA unaffected

GLB slight change in appearance

GLC appearance modification

Acids and base (high concentration)

GHA unaffected

GHB slight change in appearance

GHC significant change

SRPS ISO 10545-14 Determination of resistance to stains – The surface of the tiles is subjected to the action of staining agents. Classification is from 5 to 1, depending on the cleaning difficulty. 5 is for the best classification, when stain can be easily removed.

FITTING RECOMMENDATIONS

- Before the installation the tiles have to be plunged into water for better adherence to the substrate.
- According to the standard SRPS U.F2.011 the tiles have to be fitted with grout joints. The width of the grout joints has to be minimum 3 mm when fitting wall tiles and 4 mm in the case of floor tiles.

- The substrate in which the tile assemblies are adhered to has to be dry (not freshly mortared) and without any structural cracks.
- When buying ceramic tiles it is necessary to pay attention to the code of caliber and tone. The same caliber and tone should be respected when installing the tiles.
- Those tiles of rustic type are likely to be different in nuance, therefore, before fitting the tiles, it is recommended to match a few square meters combining nuances according to the client's request.

PORCELAIN FLOOR TILES 30 × 30 cm
SRPS EN 14411, group B Ia, appendix G

Technical characteristics	Norms	Required standards	
		SRPS EN 14411	KK+
Length and width	SRPS ISO 10545-2	± 0,50 %	± 0,35 %
Thickness	SRPS ISO 10545-2	± 5,00 %	± 2,50 %
Rectangularity	SRPS ISO 10545-2	± 0,60 %	± 0,50 %
Straightness of sides	SRPS ISO 10545-2	± 0,50 %	± 0,30 %
Water absorption	SRPS ISO 10545-3	≤ 0,50 %	< 0,10 %
Breaking strength	SRPS ISO 10545-4	min 1300 N	> 3100 N
Modulus of rupture (bending strength)	SRPS ISO 10545-4	min 35 N/mm ²	> 50 N/mm ²
Wear resistance	SRPS ISO 10545-6	max 175 mm ³	≤ 95 mm ³
Coefficient of linear thermal expansion	SRPS ISO 10545-8	Testing method exists	3,5×10 ⁻⁶ K ⁻¹
Resistance to thermal shock	SRPS ISO 10545-9	Testing method exists	Conforms
Crazing resistance	SRPS ISO 10545-11		
Frost resistance	SRPS ISO 10545-12	Required	Resistance guaranteed
Resistance to chemical products for domestic use	SRPS ISO 10545-13	Minimum UB	
Resistance to stains	SRPS ISO 10545-14	Testing method exists	Class 3

FLOOR TILES - MONOCOTTURA
SRPS EN 14411, group B Ib, appendix H

Technical characteristics	Norms	Required standards	
		SRPS EN 14411	KK+
Length and width	SRPS ISO 10545-2	± 0,5 %	± 0,3 %
Thickness	SRPS ISO 10545-2	± 5,0 %	± 2,5 %
Rectangularity	SRPS ISO 10545-2	± 0,6 %	± 0,3 %

Straightness of sides	SRPS ISO 10545-2	± 0,5 %	± 0,2 %
Surface flatness	SRPS ISO 10545-2	± 0,5 %	+ 0,2 / - 0.1 %
Appearance	SRPS ISO 10545-2	min. 95% tiles with no visible defects	
Water absorption	SRPS ISO 10545-3	< 3,0 %	< 2,80 %
Breaking strength	SRPS ISO 10545-4	> 1100 N	> 1200 N
Modulus of rupture (bending strength)	SRPS ISO 10545-4	≥ 30 N/mm ²	> 40 N/mm ²
Wear resistance	SRPS ISO 10545-7	Class of wear resistance is declared for every product	
Coefficient of linear thermal expansion	SRPS ISO 10545-8	Testing method exists	7×10 ⁻⁶ K ⁻¹
Resistance to thermal shock	SRPS ISO 10545-9	Testing method exists	Conforms
Frost resistance	SRPS ISO 10545-11	Required	Conforms
Crazing resistance	SRPS ISO 10545-12	Required	Conforms
Resistance to chemical products for domestic use	SRPS ISO 10545-13	Minimum GB	GA
Resistance to stains	SRPS ISO 10545-14	Minimum Class 3	Class 5

WALL TILES – MONOPOROSA
SRPS EN 14411, group B III, appendix L

Technical characteristics	Norms	Required standards	
		SRPS EN 14411	KK+
Length and width	SRPS ISO 10545-2	± 0,5 %	± 0,3 %
Thickness	SRPS ISO 10545-2	± 10,0 %	± 2,5 %
Rectangularity	SRPS ISO 10545-2	± 0,5 %	± 0,3 %
Straightness of sides	SRPS ISO 10545-2	± 0,3 %	± 0,2 %
Surface flatness	SRPS ISO 10545-2	+ 0,5 % / - 0,3 %	+ 0,25 % / - 0,1 %
Water absorption	SRPS ISO 10545-3	> 10,00 %	> 14,00 %
Breaking strength	SRPS ISO 10545-4	> 600 N	> 750 N
Modulus of rupture (bending strength)	SRPS ISO 10545-4	> 12 N/mm ²	> 19 N/mm ²
Wear resistance	SRPS ISO 10545-7		
Coefficient of linear thermal expansion	SRPS ISO 10545-8	Testing method exists	7×10 ⁻⁶ K ⁻¹
Resistance to thermal shock	SRPS ISO 10545-9	Testing method exists	Conforms
Crazing resistance	SRPS ISO 10545-11	Required	Conforms
Frost resistance	SRPS ISO 10545-12		
Resistance to chemical products for domestic use	SRPS ISO 10545-13	Minimum GB	GA
Resistance to stains	SRPS ISO 10545-14	Minimum Class 3	Class 5