

STONEGRES

DENIM

DENIM POP WEAVES

Iconic, robust, versatile, enduring.

The Denim collection is influenced by jeans, in an unexpected new form of representation. Taking from and updating the distinctive properties that have always made jeans a ubiquitous icon of style.

The material is impressed with an innovative new finish suitable for floors and walls.

The nature of the yarn used to make jeans is expressed in three patterns – Streaked/*Striato*, Wavy/*Ondulato*, Ruled/*Sfilato* – each developed in two different variations, with different patterns and colours.

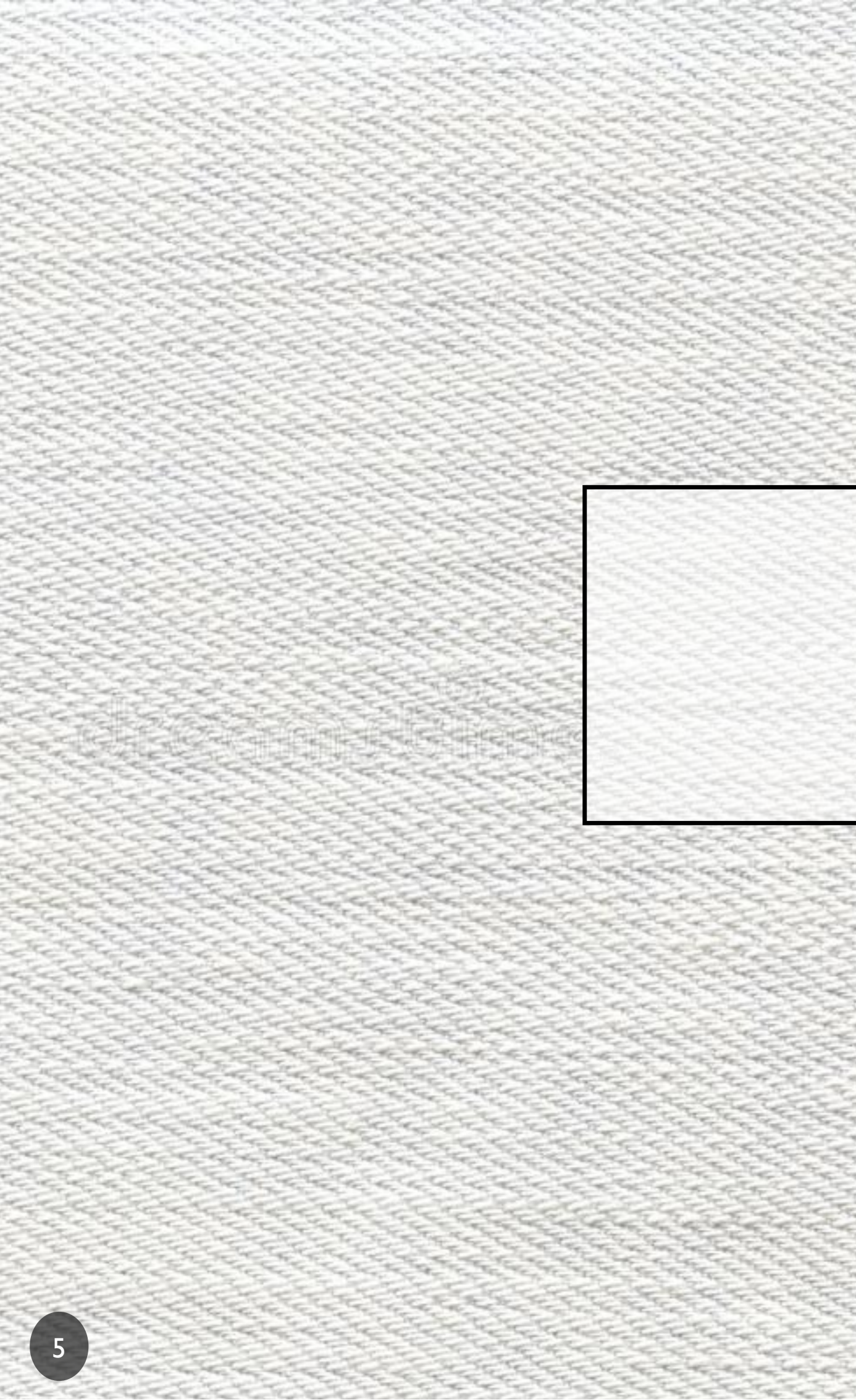
What changes is the relationship between warp and weft, the regularity of the stripes and weaves.

DENIM
Intrecci POP
POP weaves






PIOMBO
&
ONDULATO 01



BIANCO TELA

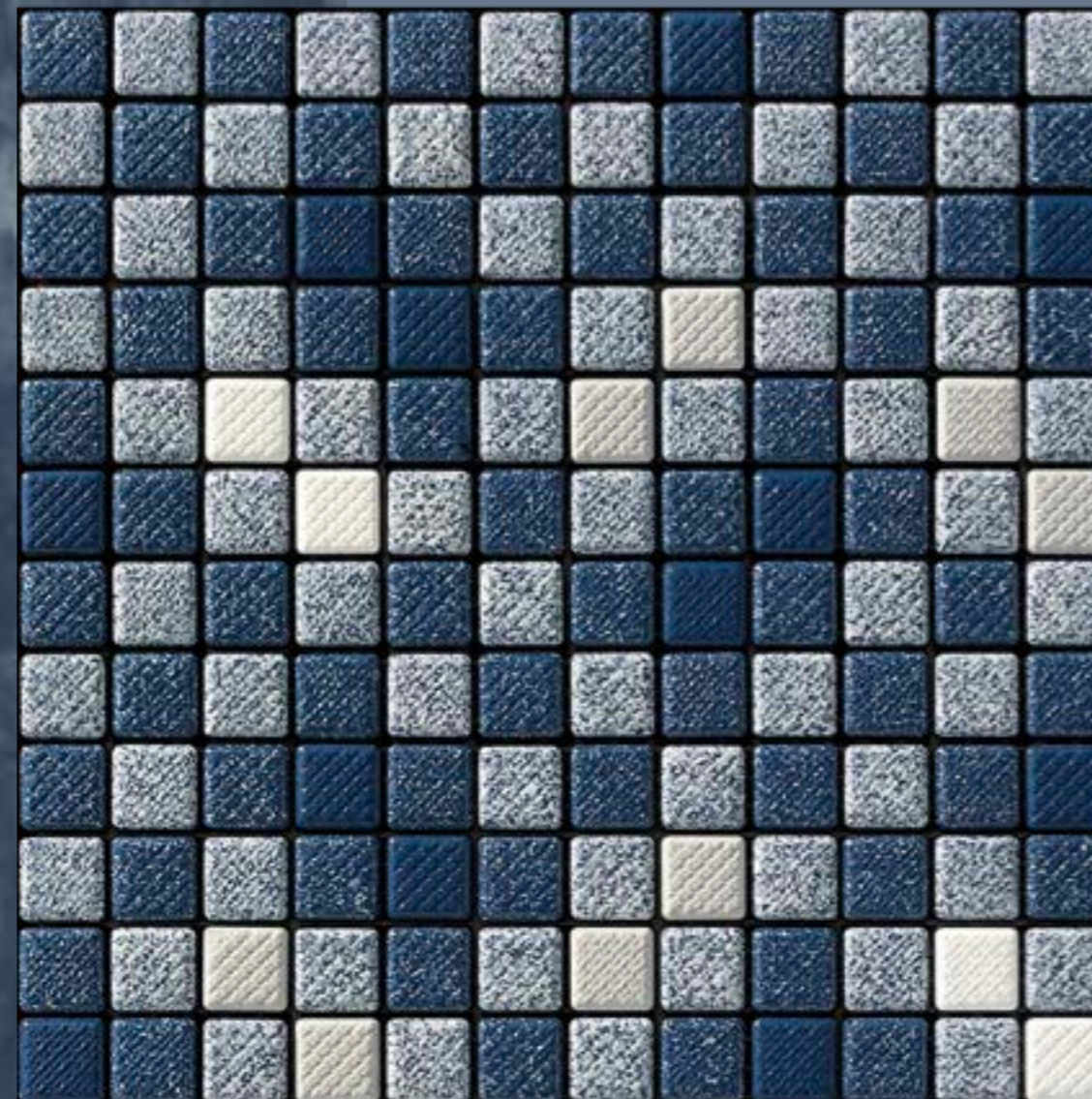









WAVY BLEND
(ONDULATO)

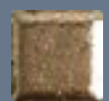
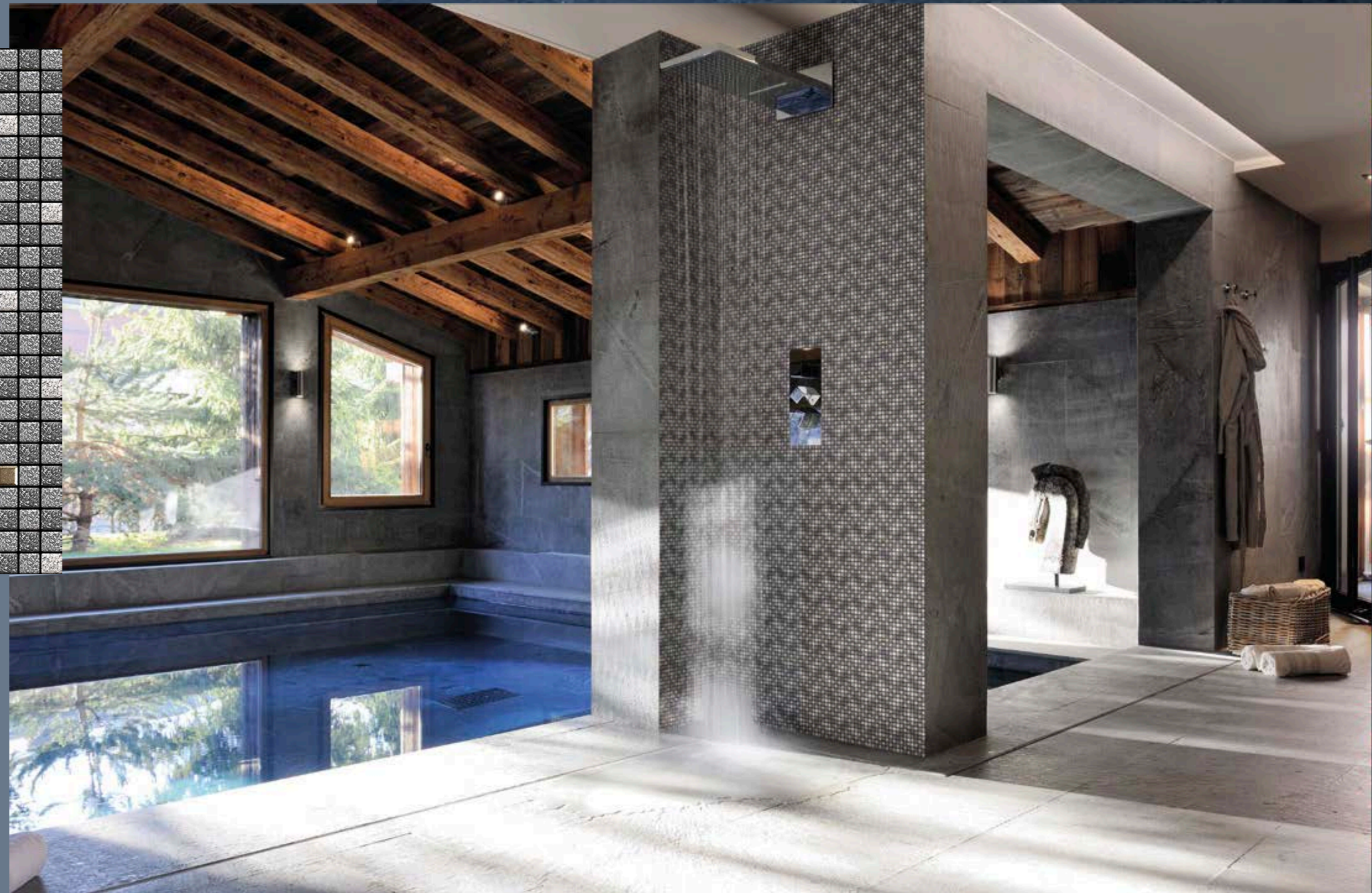
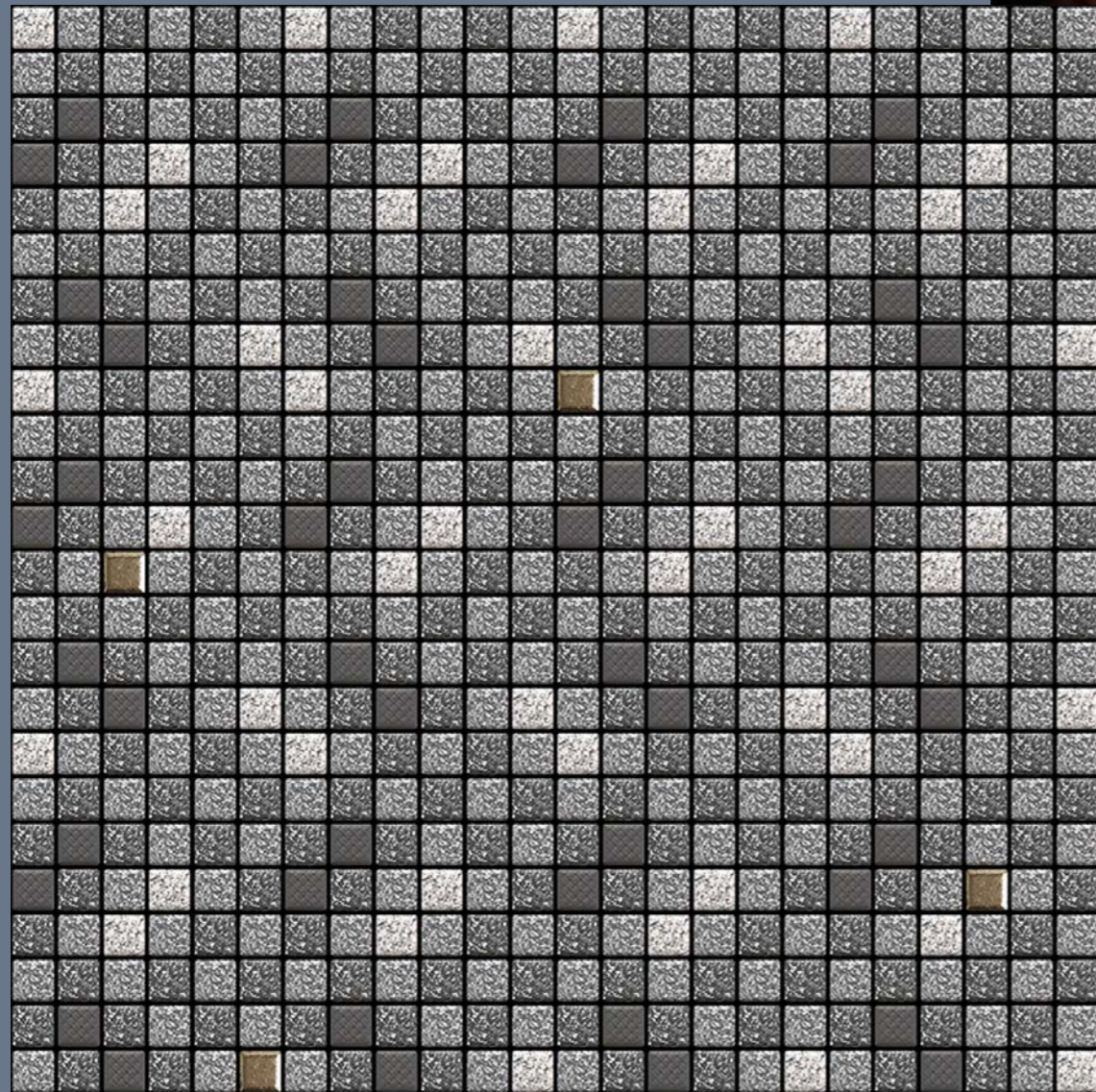


ONDULATO 02
(ONDU 002)

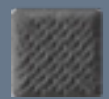


-  bianco tela
-  nebbia
-  avio
-  avio 45
-  avio 15

ONDULATO01
(ONDU 001)



METALLICA bronzo



piombo



piombo 85



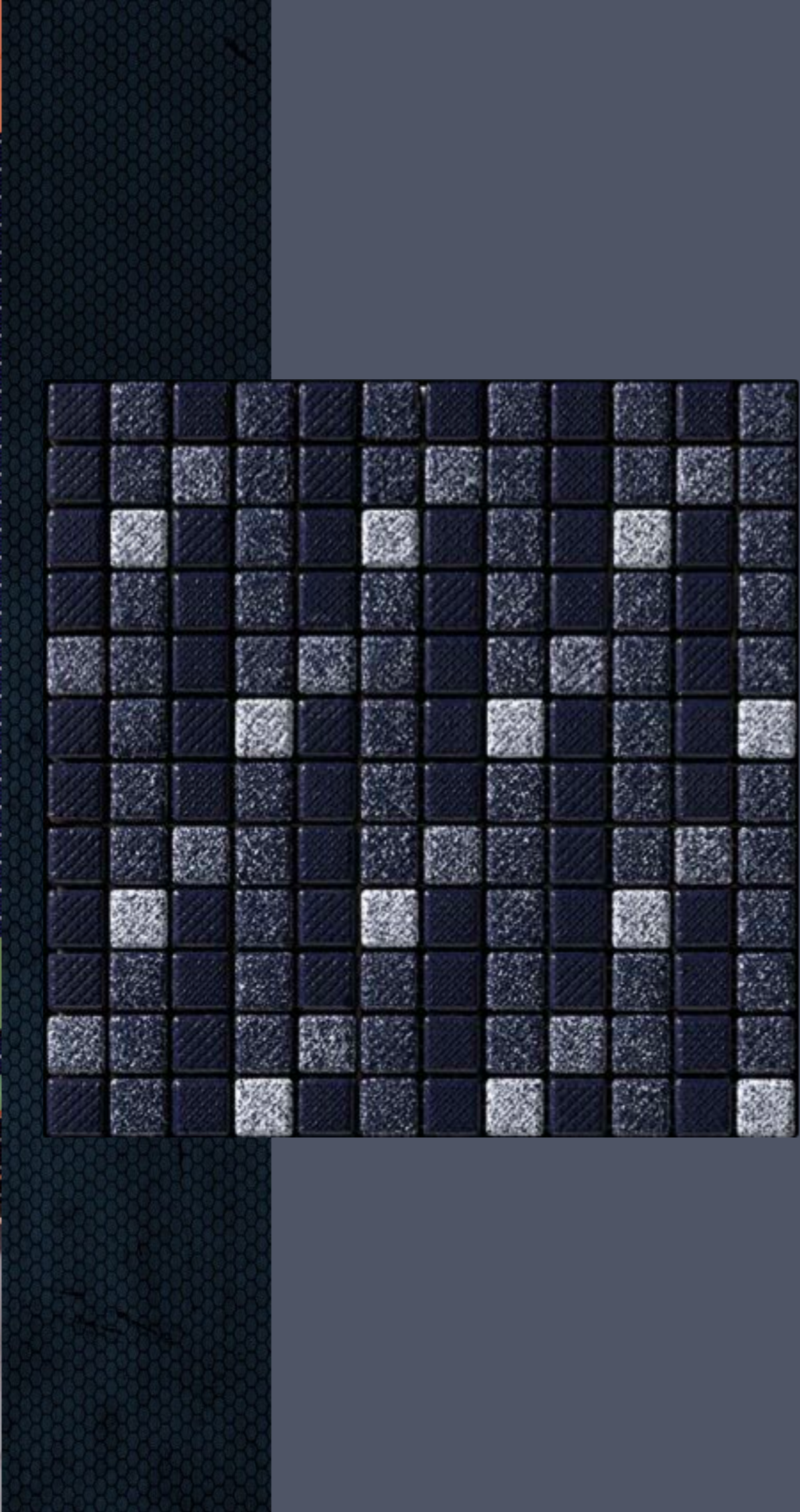
piombo 50



piombo 15



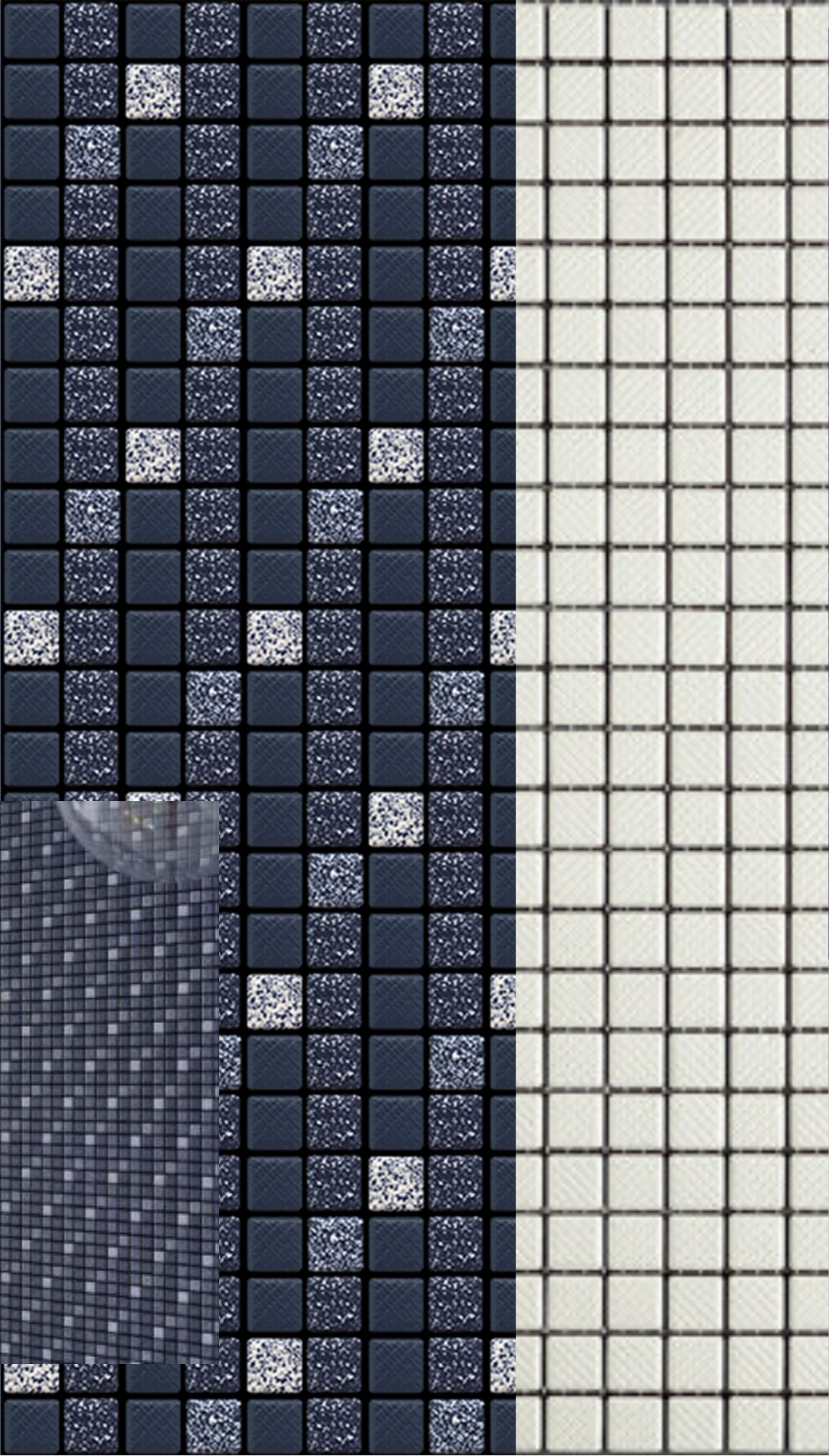
RULED BLEND
(SFILATO)



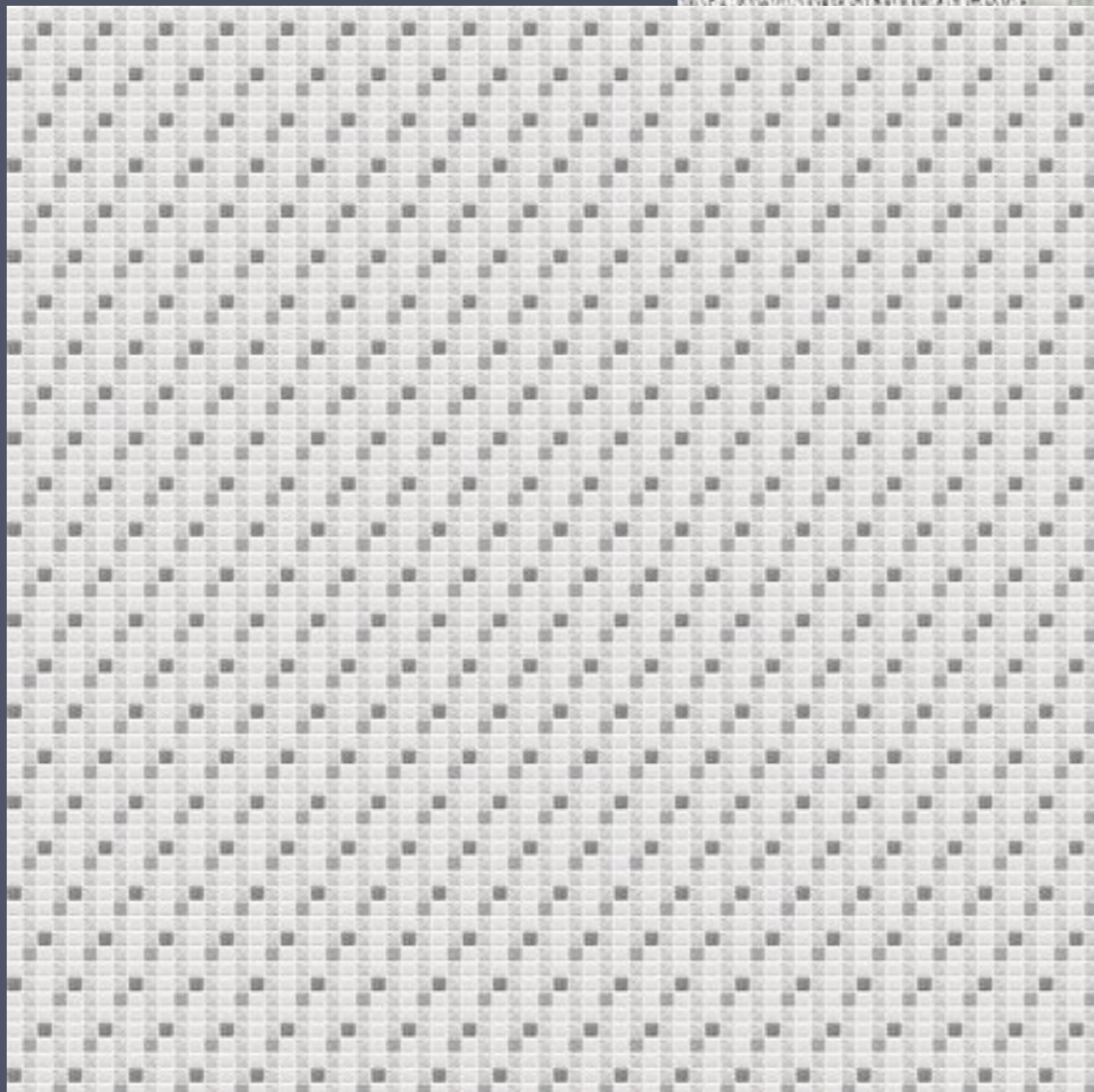
SFILATO 02
(SFIL 002)

-  oltramare
-  oltramare 85
-  oltramare 50
-  oltramare 15

SFILATO 02 (SFIL 002)
&
BIANCO TELA



SFILATO 01
(SFIL 001)



-  bianco tela
-  piombo 85
-  piombo 50
-  piombo 15



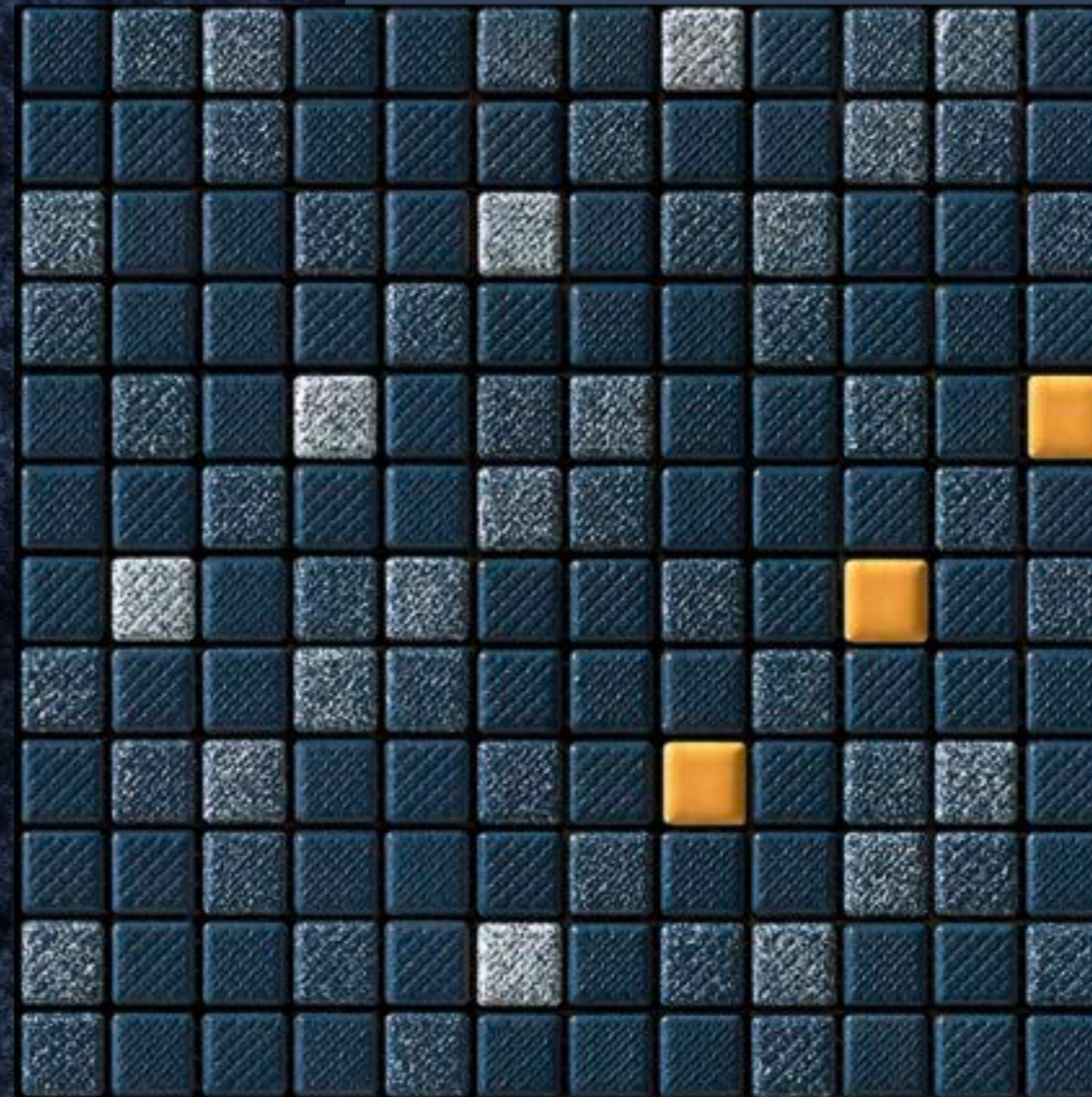







STREAKED BLEND
(STRIATO)



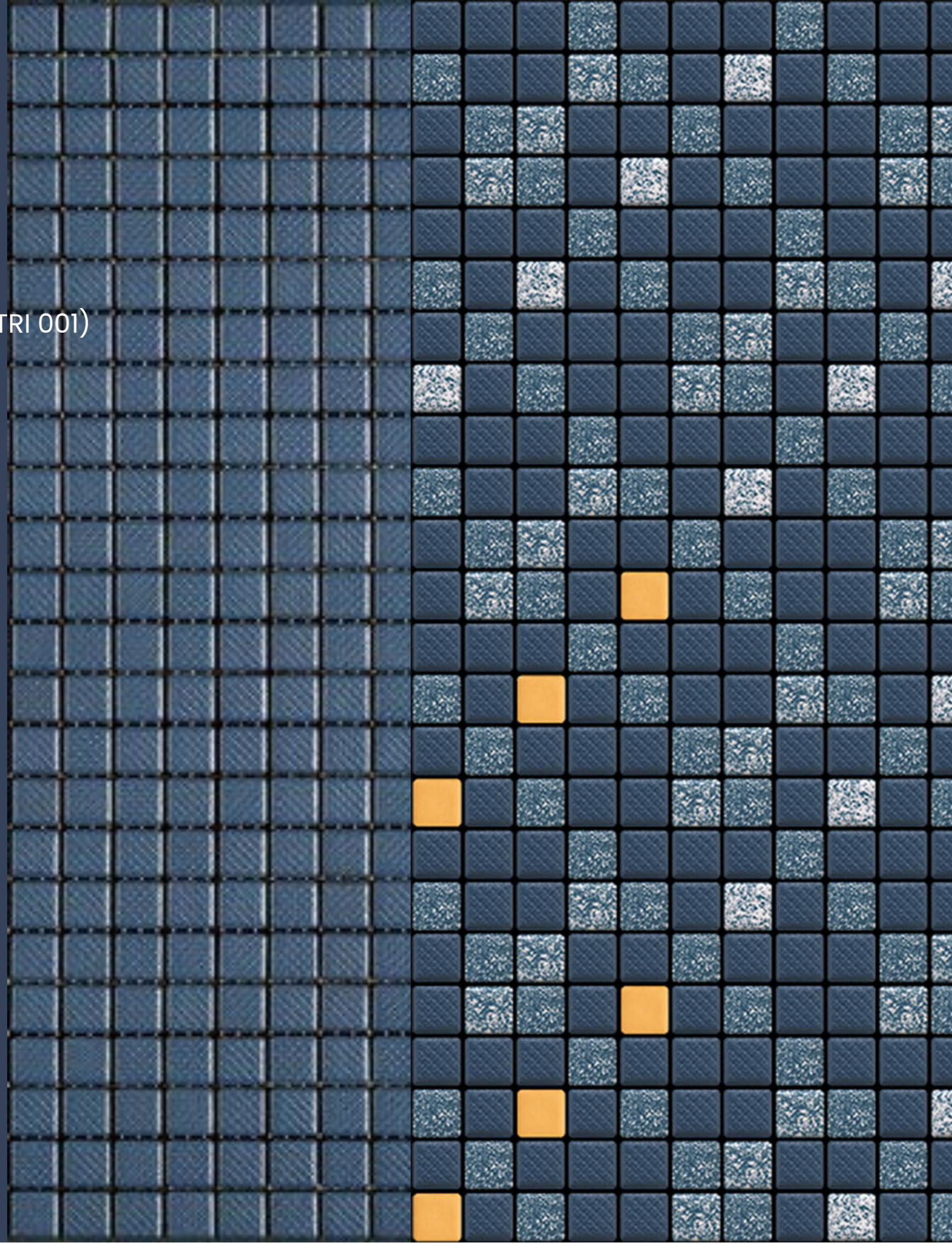


STRIATO 01
(STRI 001)

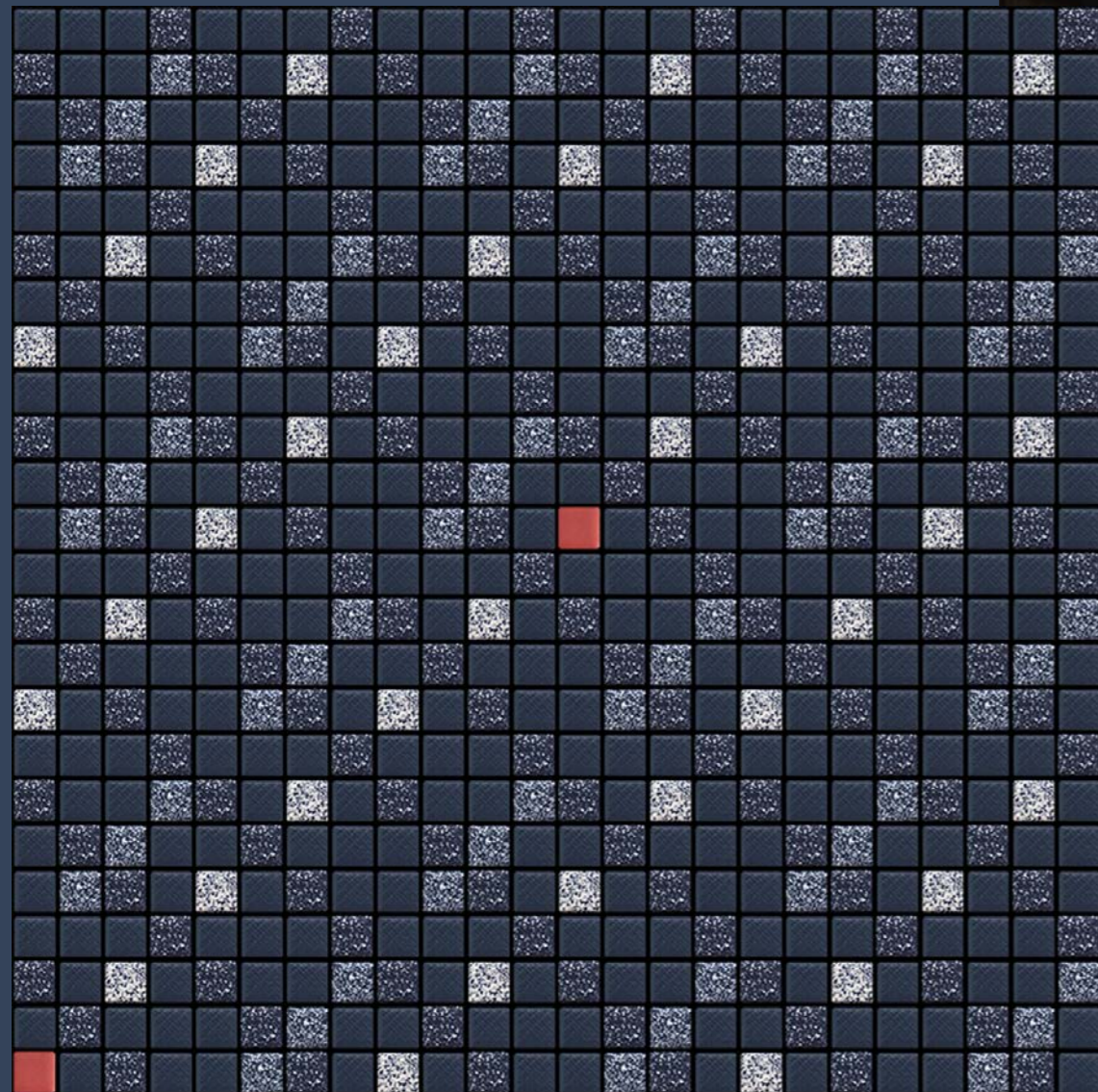


-  SETA giallarancio
-  avio
-  avio 85
-  avio 50
-  avio 15

FLOOR: STRIATO 01 (STRI 001)
&
WALL: AVIO



STRIATO 02
(STRI 002)



-  SETA fuoco
-  oltremare
-  oltremare 85
-  oltremare 50
-  oltremare 15

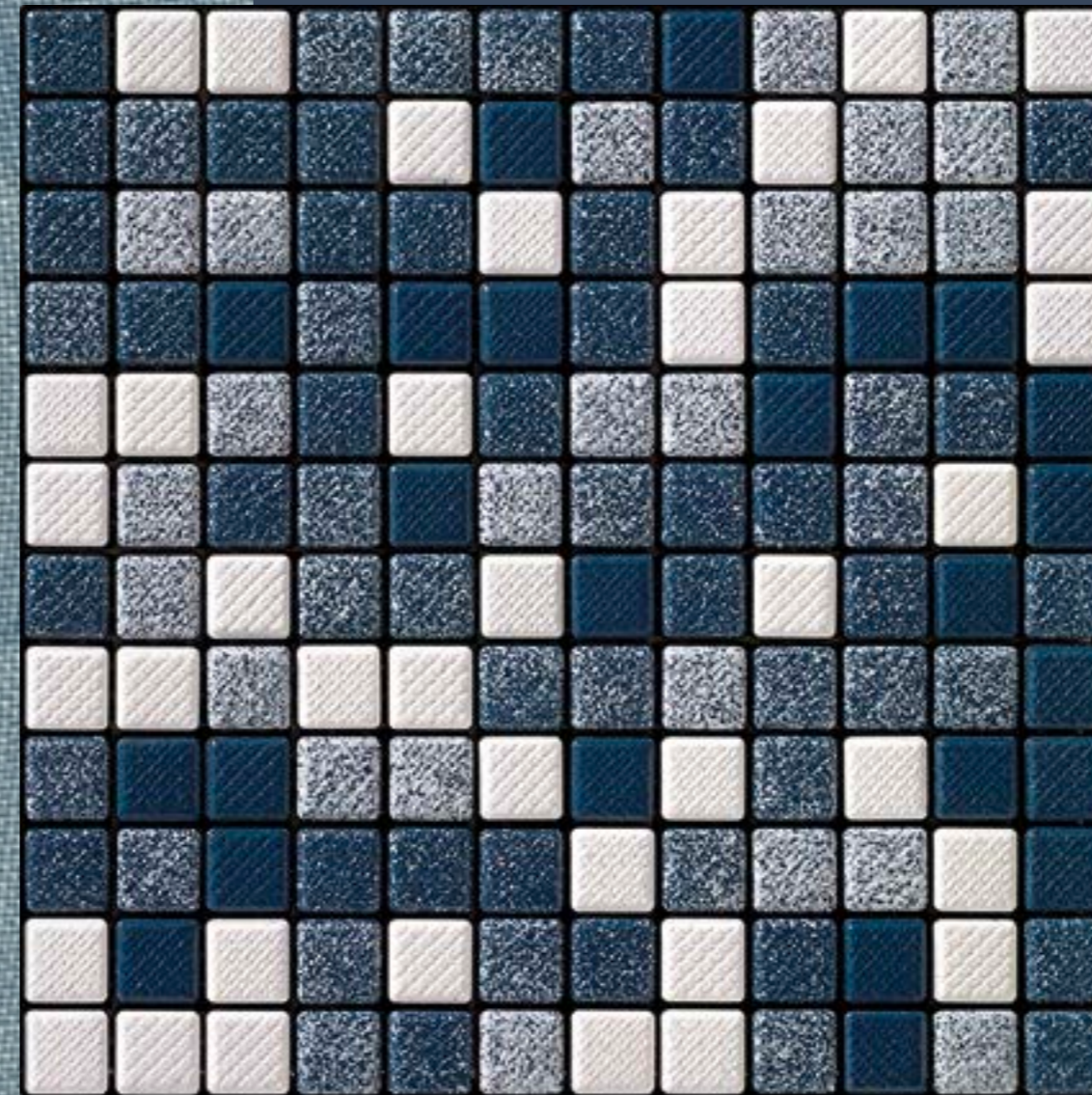





DENIM MIX

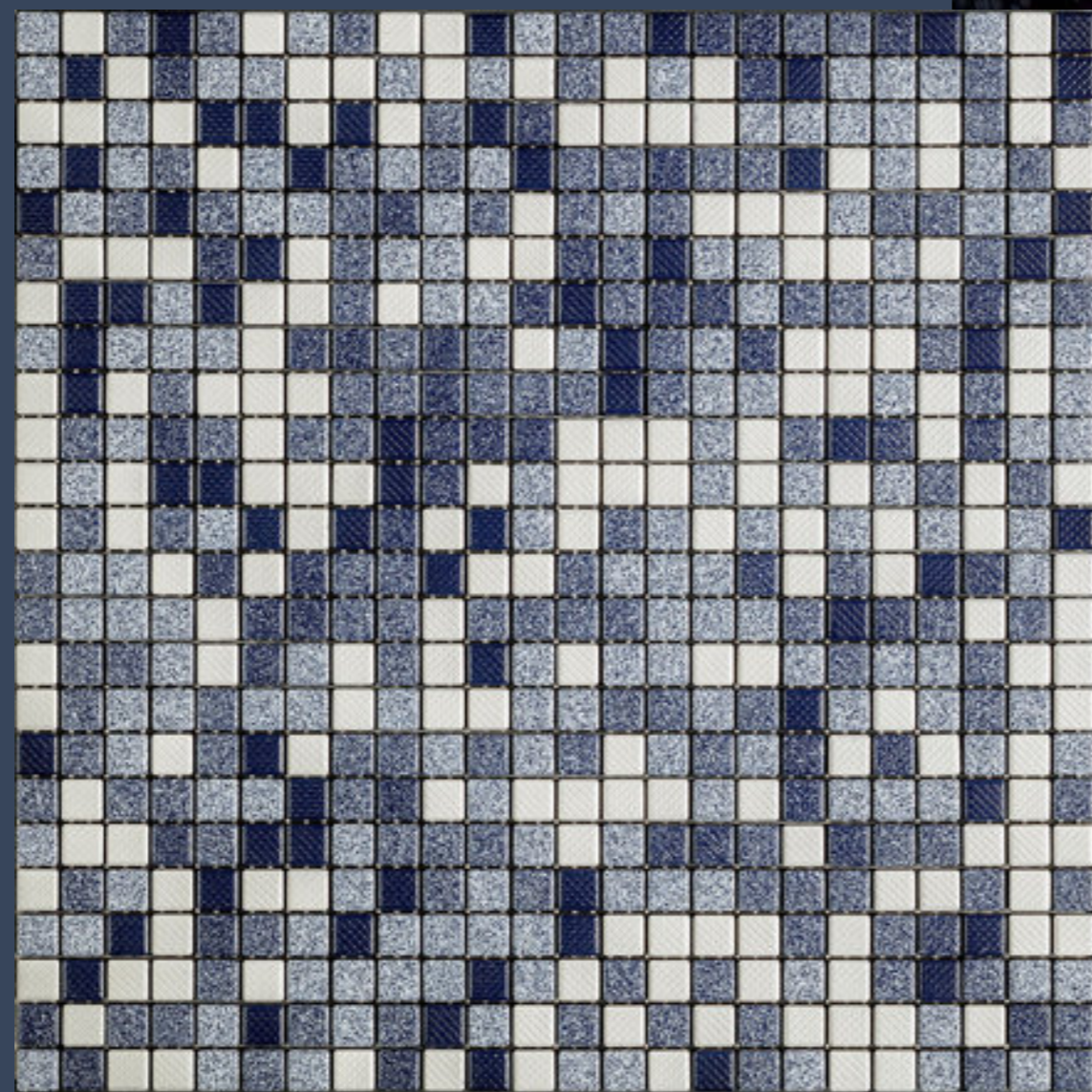


MIX AVIO



-  bianco tela (20%)
-  avio (20%)
-  avio 85 (20%)
-  avio 50 (20%)
-  avio 15 (20%)

MIX OLTREMARE
(X DEN 403)

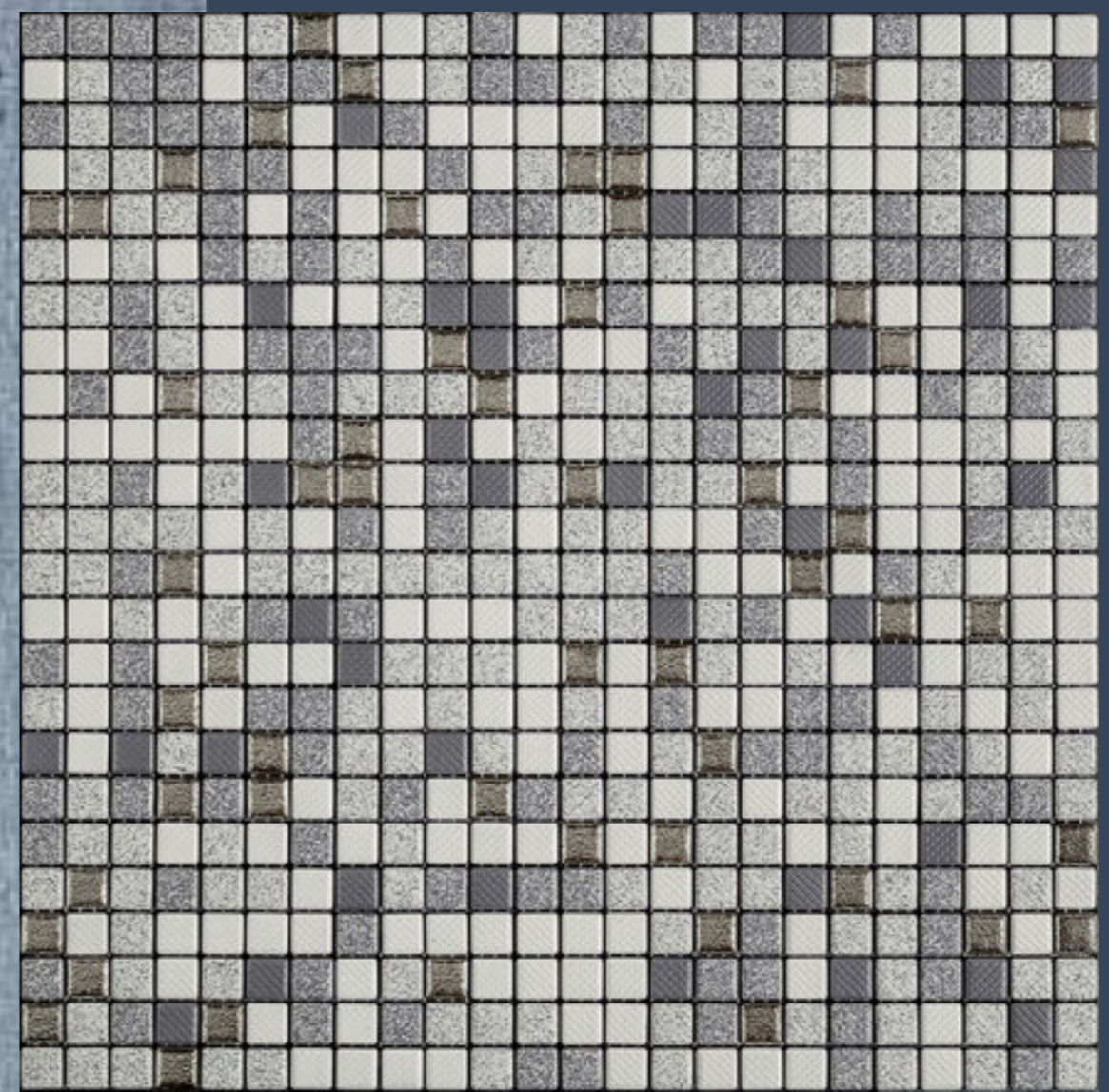







-  bianco tela (30%)
-  oltremare (10%)
-  oltremare 85 (10%)
-  oltremare 50 (20%)
-  oltremare 15 (30%)





MIX PIOMBO



-  METALLICA pirite (10%)
-  piombo (10%)
-  piombo 50 (20%)
-  piombo 15 (30%)
-  bianco tela (30%)



MIX PIOMBO

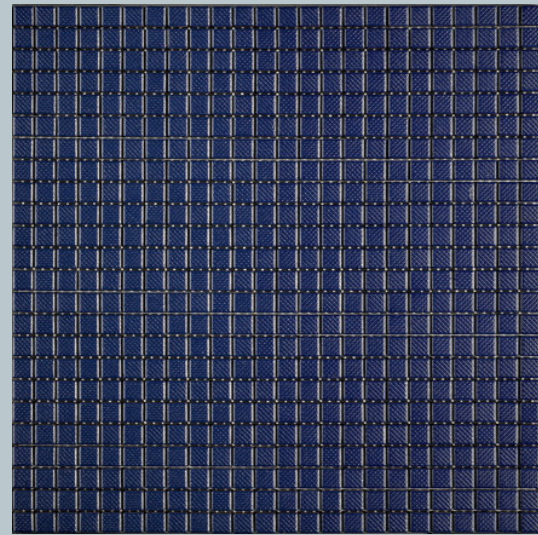


CUSTOMISED
BLEND

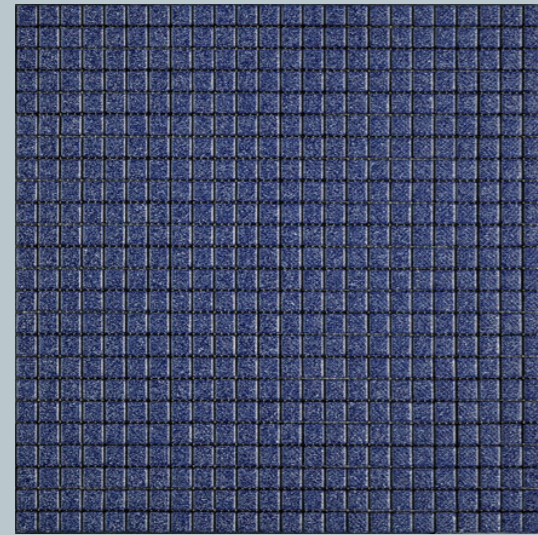


FLOOR: MIX PIOMBO
&
WALLS: BIANCO TELA

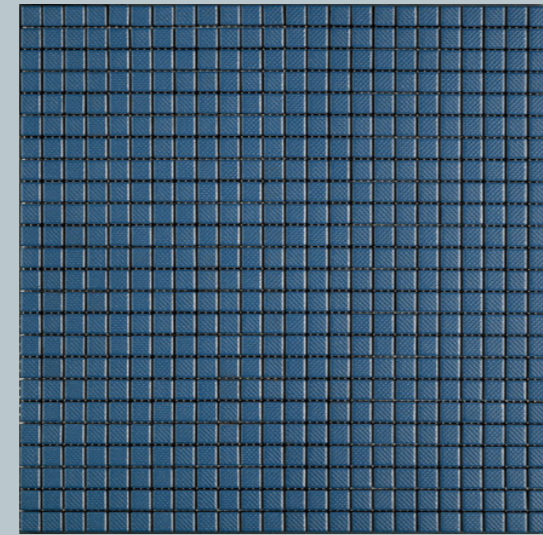
COLOURS



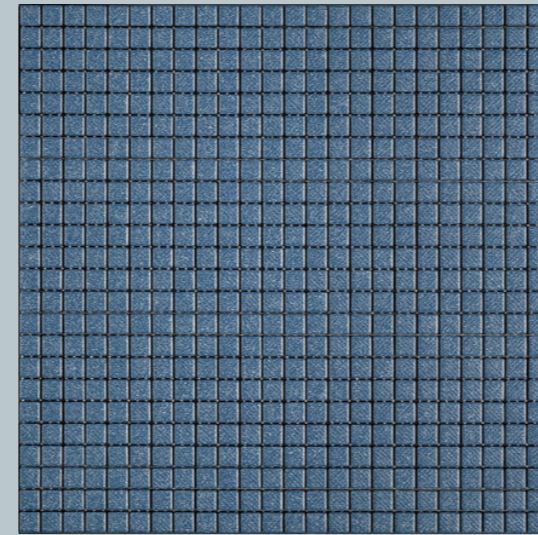
oltremare
DEN 4041
DAS 441C anti-slip



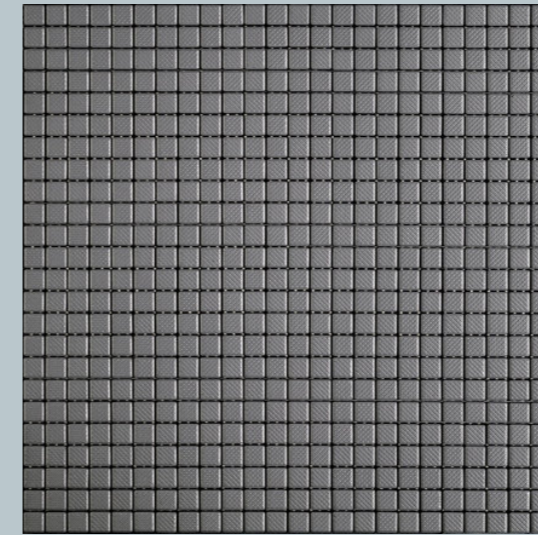
oltremare 85
DEN 4042



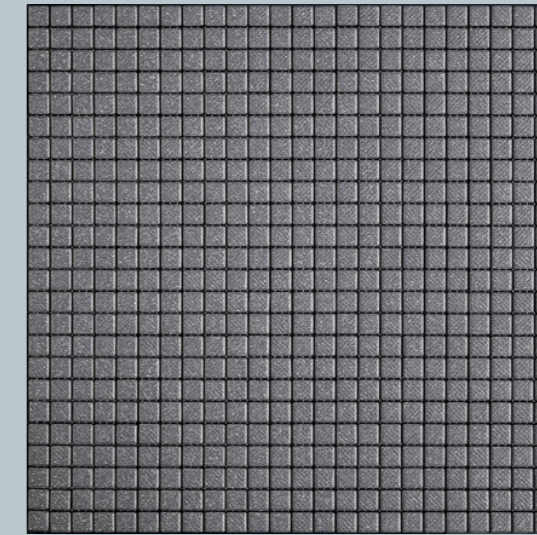
avio
DEN 4031
DAS 431C anti-slip



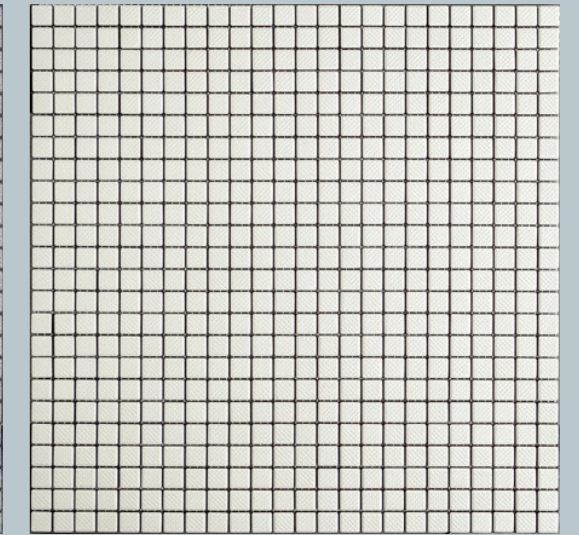
avio 85
DEN 4032



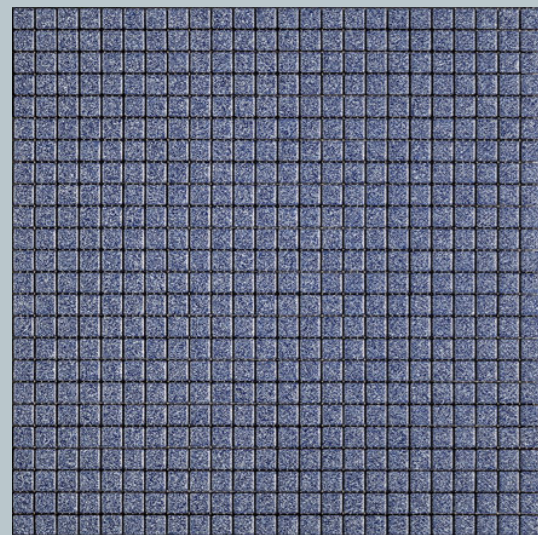
piombo
DEN 4021
DAS 412C anti-slip



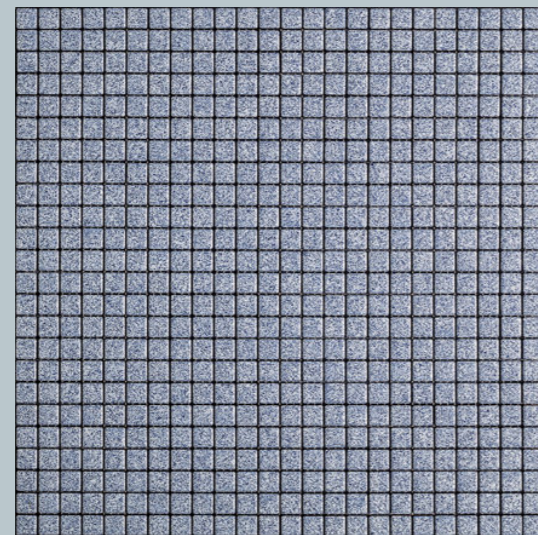
piombo 85
DEN 4022



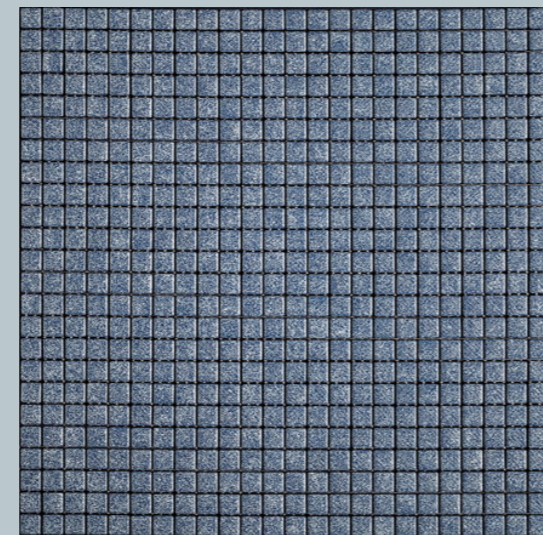
bianco tela
DEN 4001
DAS 401C anti-slip



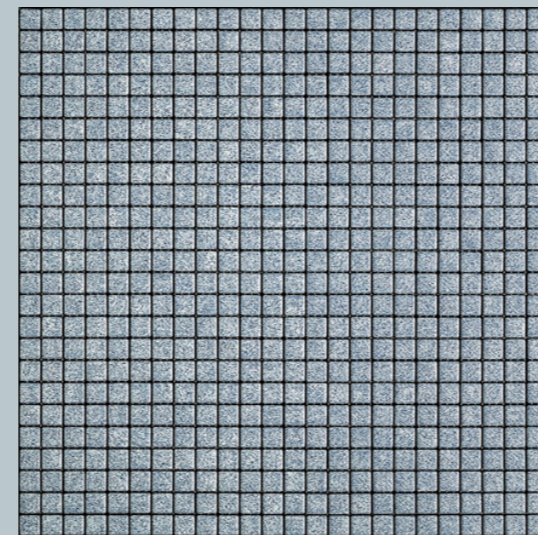
oltremare 50
DEN 4043



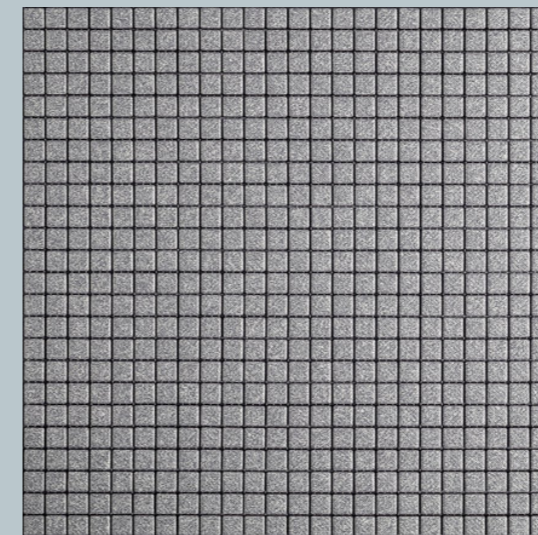
oltremare 15
DEN 4044



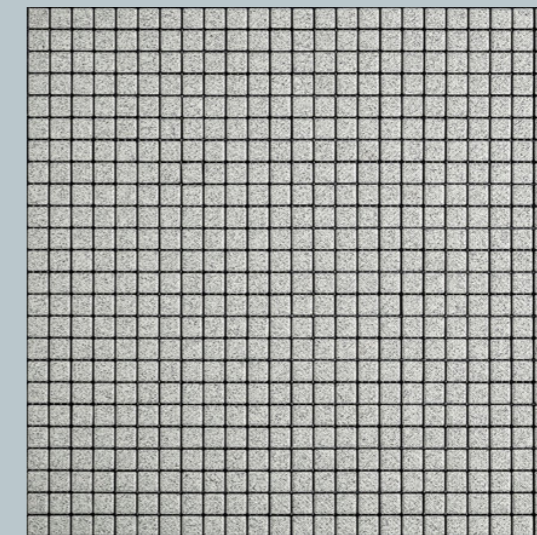
avio 50
DEN 4033



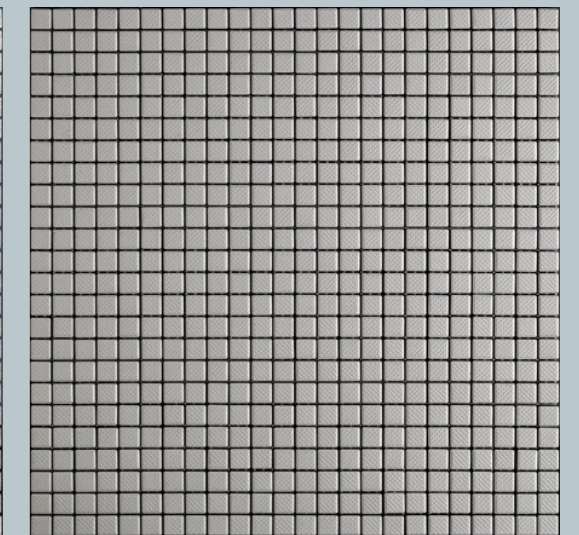
avio 15
DEN 4034



piombo 50
DEN 4023



piombo 15
DEN 4024



nebbia
DEN 4011
DAS 411C anti-slip

sheet size 300 x 300 mm (net mounted)

mosaic size 12 x 12 mm

abrasion coefficient:

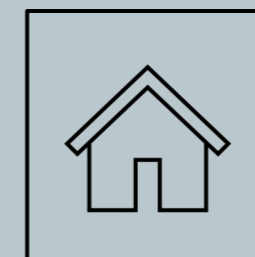
(PEI) II OLTREMARE 50 | AVIO 85

(PEI) III OLTREMARE 15 | AVIO | AVIO 50 | PIOMBO | PIOMBO 85 | PIOMBO 50

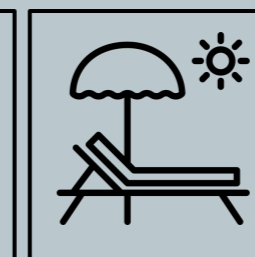
(PEI) IV OLTREMARE | OLTREMARE 85 AVIO 15 | PIOMBO 15 | NEBBIA

(PEI) V BIANCO TELA

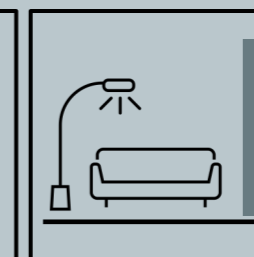
application



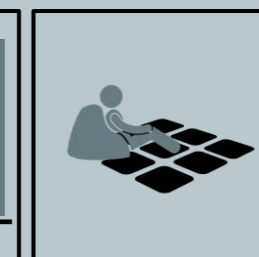
INDOOR



OUTDOOR

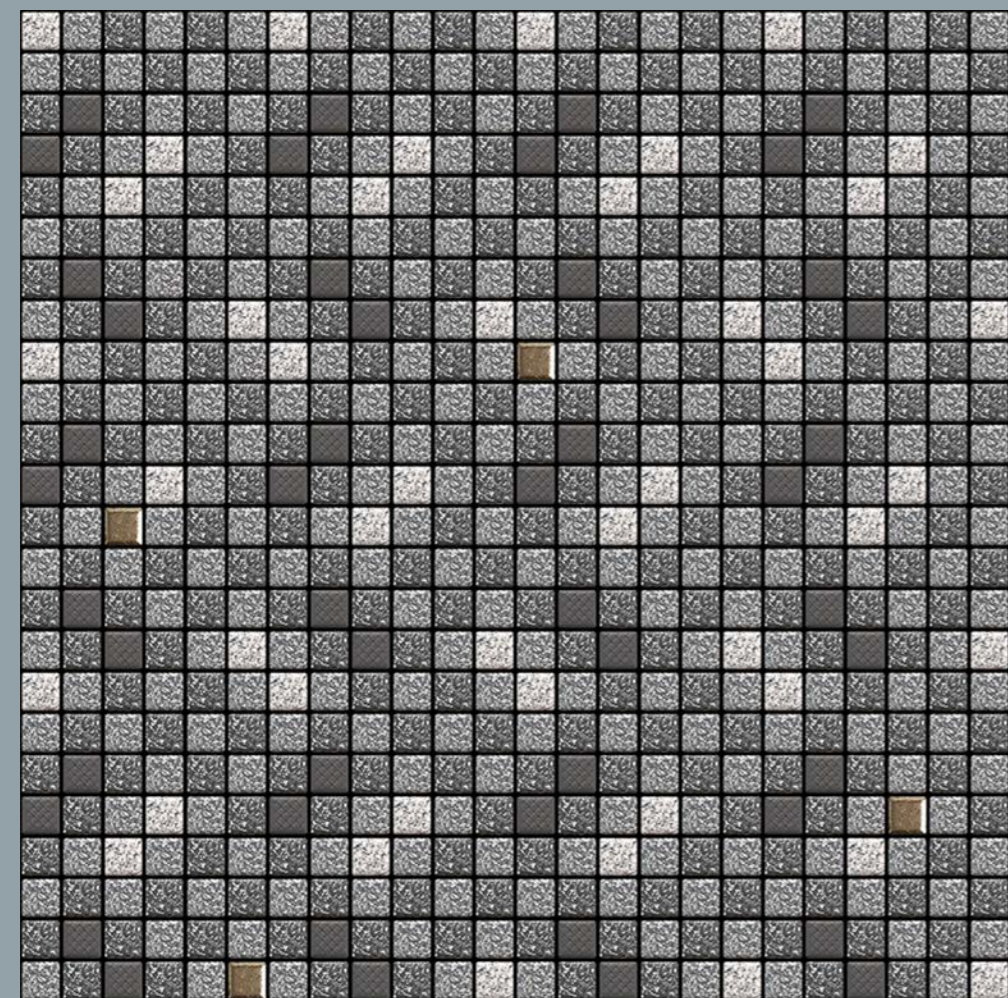


WALLS



FLOORS

ONDULATO 01



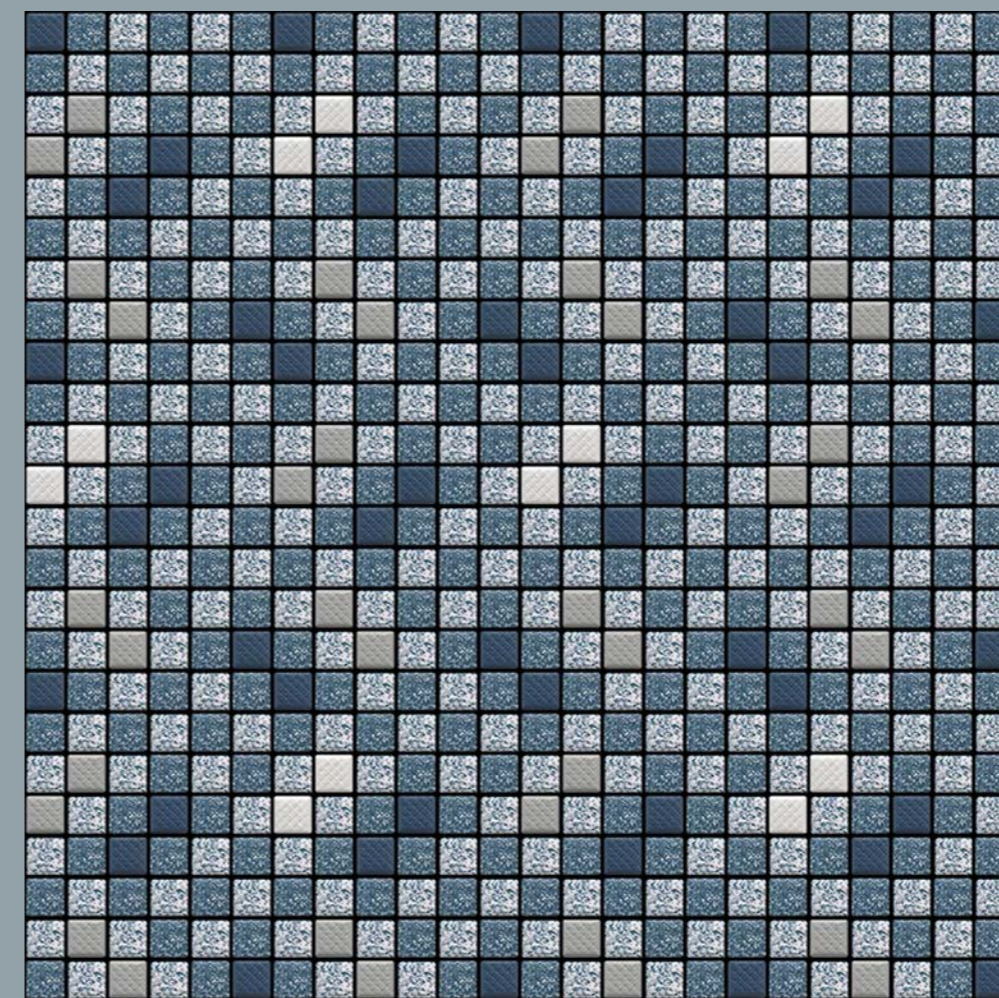
A

-  METALLICA bronzo
-  piombo
-  piombo 85
-  piombo 50
-  piombo 15






A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

ONDULATO 02



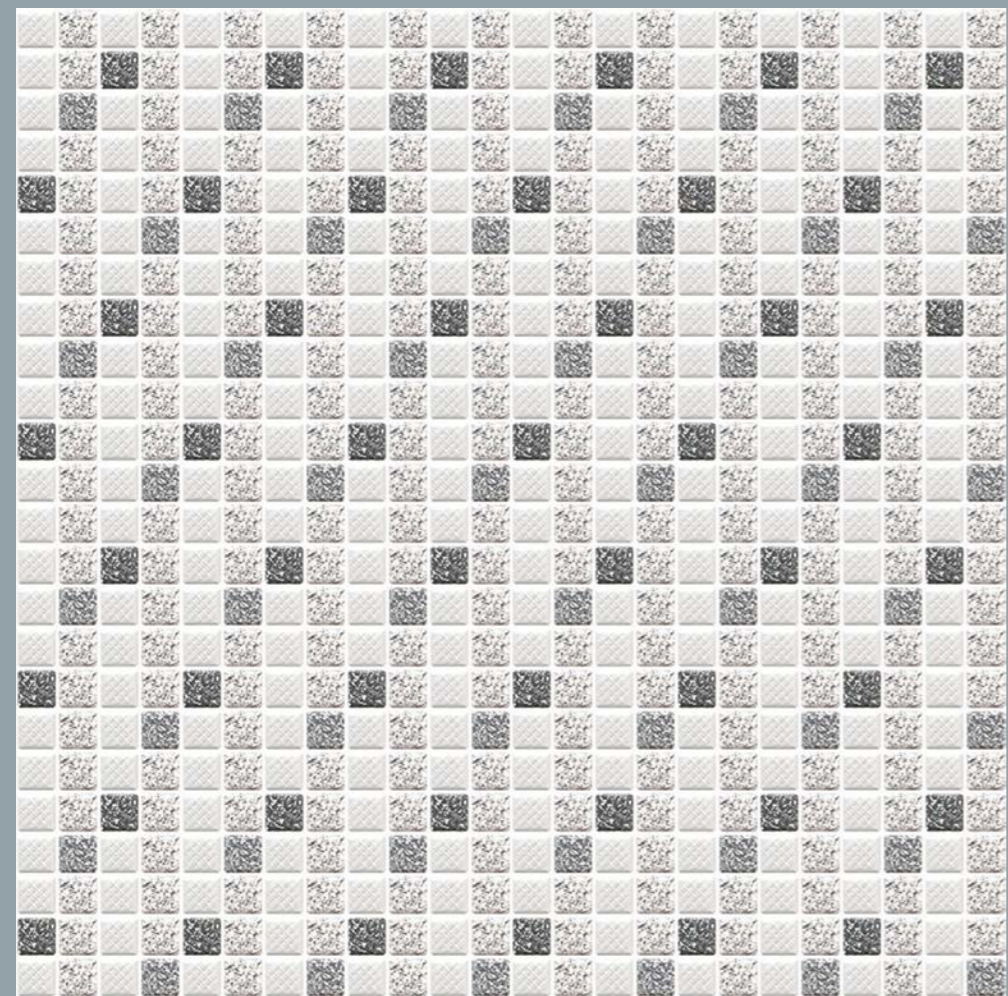
A

-  bianco tela
-  nebbia
-  avio
-  avio 85
-  avio 15





A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

SFILATO 01



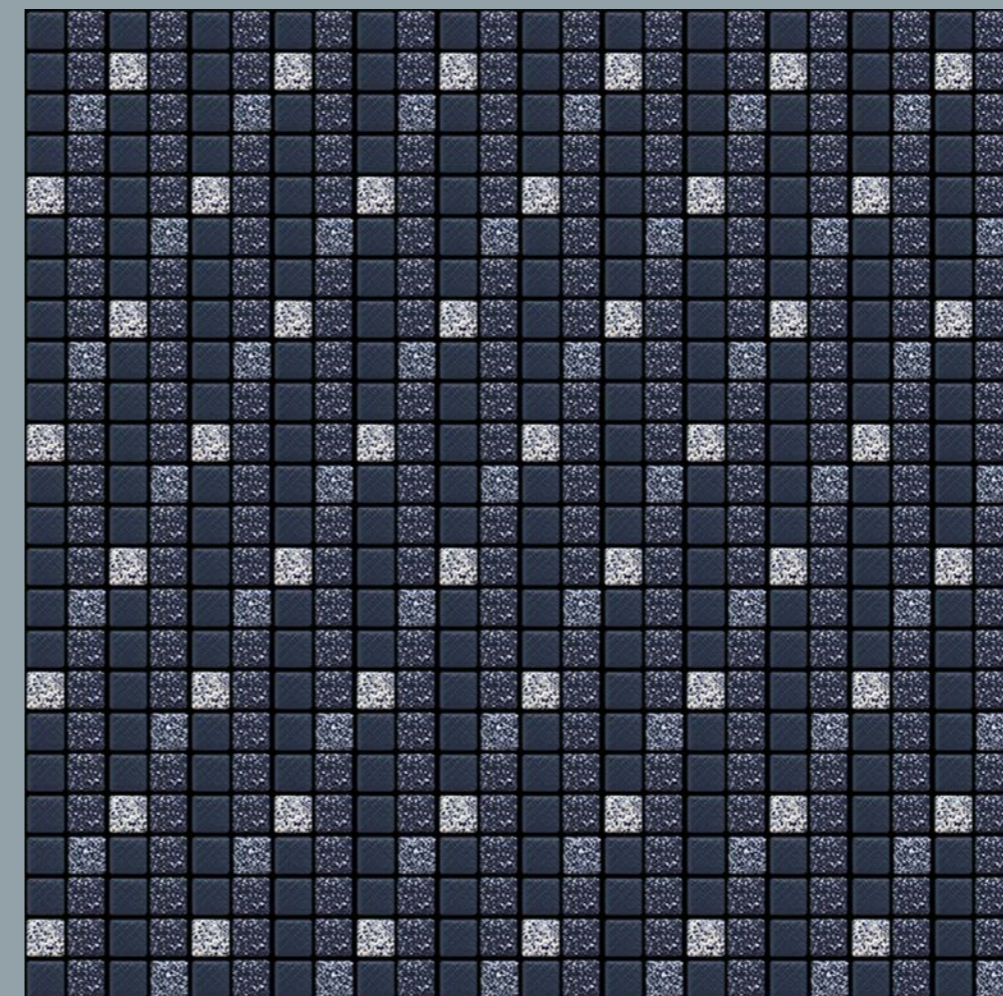
A

-  bianco tela
-  piombo 85
-  piombo 50
-  piombo 15

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

A	A
A	A

SFILATO 02



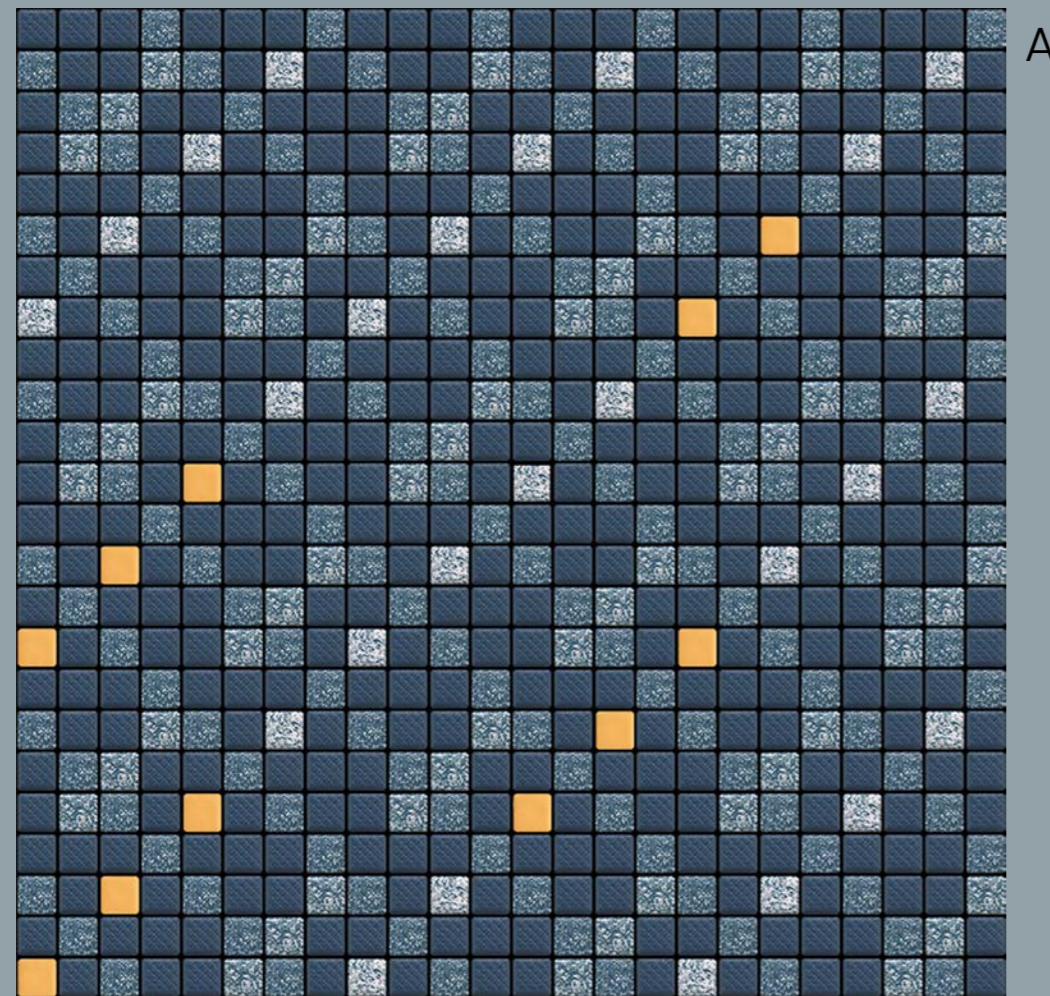
A

-  oltremare
-  oltremare 85
-  oltremare 50
-  oltremare 15

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

A	A
A	A

STRIATO 01



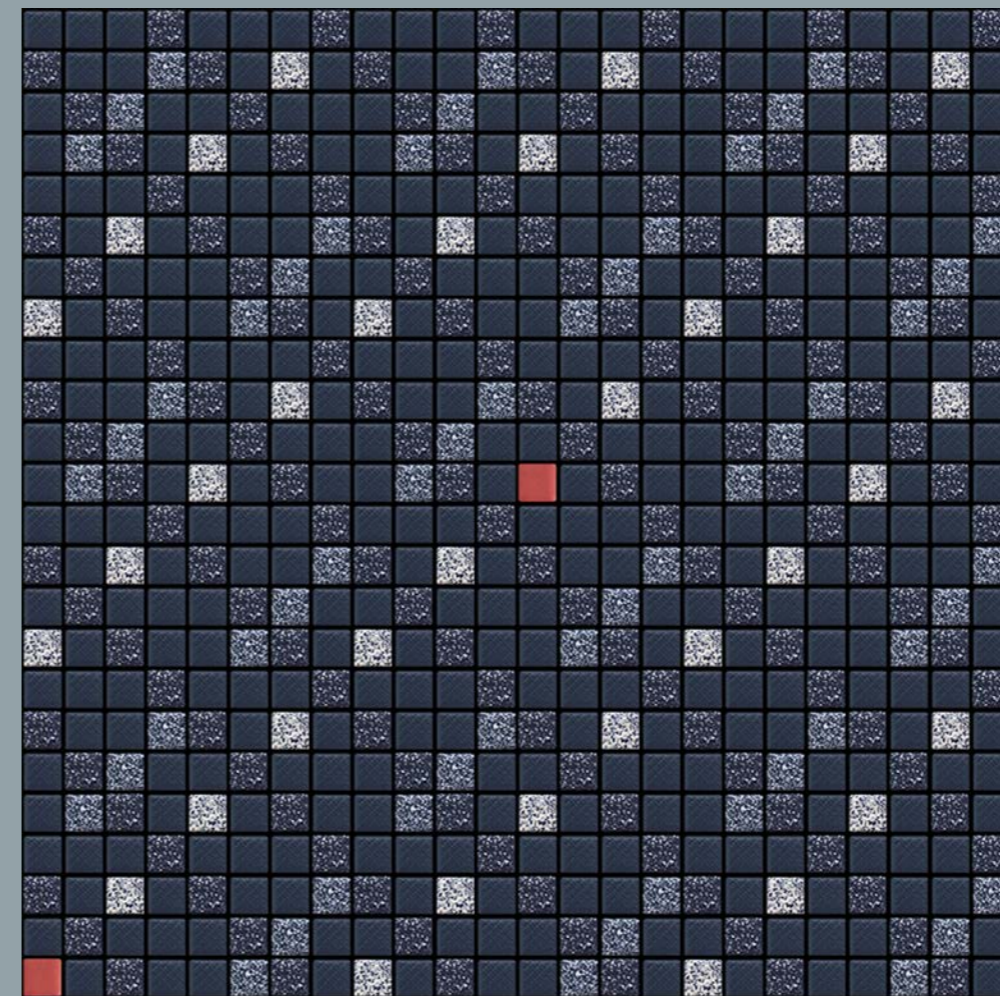
A

-  SETA giallarancio
-  avio
-  avio 85
-  avio 50
-  avio 15

A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

STRIATO 02



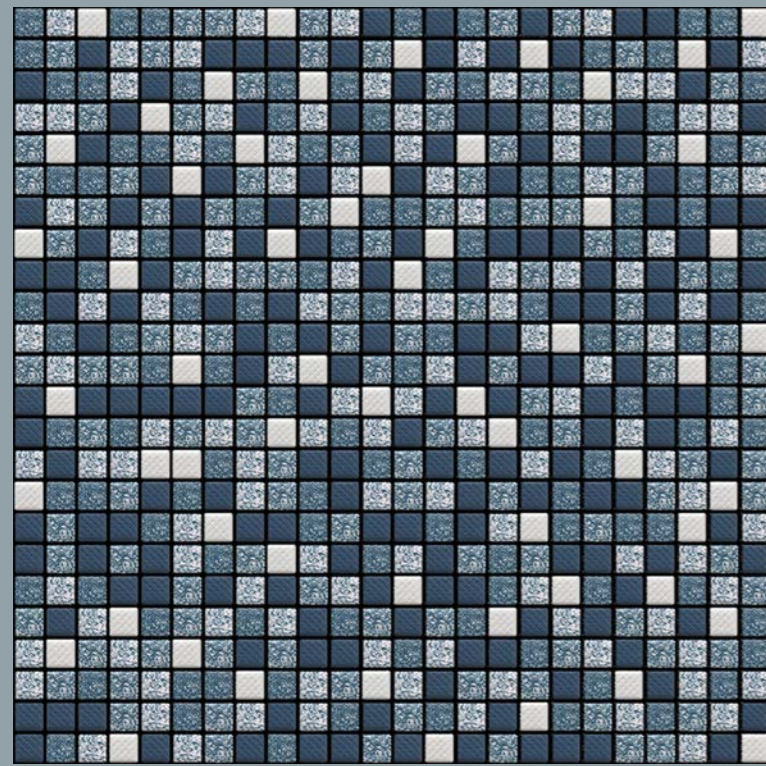
A

-  SETA fuoco
-  oltremare
-  oltremare 85
-  oltremare 50
-  oltremare 15

A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm






MIX AVIO



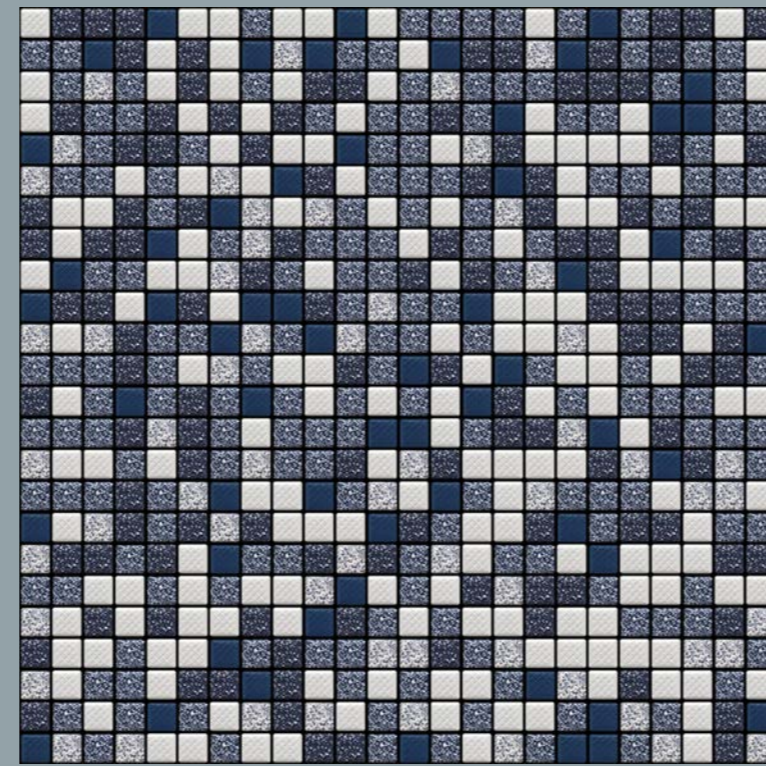
A

A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

-  bianco tela (20%)
-  avio (20%)
-  avio 85 (20%)
-  avio 50 (20%)
-  avio 15 (20%)




MIX OLTREMARE



A

A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

-  bianco tela (30%)
-  oltremare (10%)
-  oltremare 85 (10%)
-  oltremare 50 (20%)
-  oltremare 15 (30%)

MIX PIOMBO

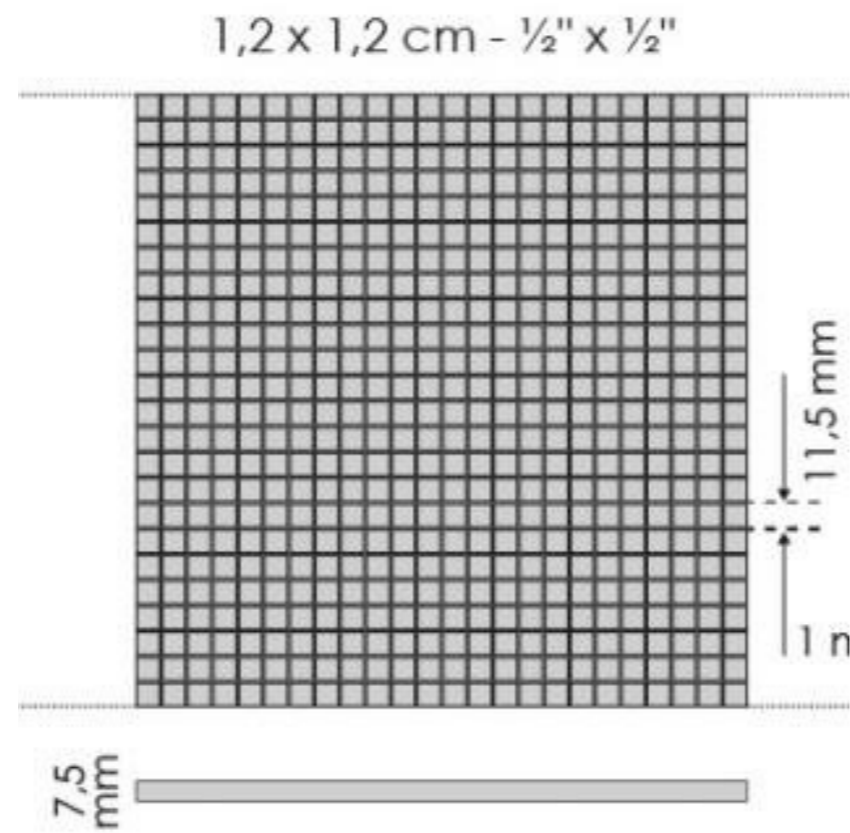


A

A	A
A	A

sheet size 300 x 300 mm
mosaic size 12 x 12 mm

-  METALLICA bronzo
-  piombo
-  piombo 85
-  piombo 50
-  piombo 15



TECHNICAL CHARACTERISTICS



TECHNICAL CHARACTERISTICS

The mosaic tesserae are supplied net mounted with a 1.6 mm joint on fiberglass net sheets sized 300x300 mm. Size 12x12 mm mosaic is supplied net mounted with a 1.1 mm joint.

The tesserae are 7.2 mm thick. The flatness of the ceramic mosaic tiles and the slight rounding of the edges make the product smooth and pleasant to the touch, also facilitating the hygiene maintenance.

Single press-firing makes it possible to obtain ceramic products that are virtually unique: previously-atomized glazes and clays are combined by permeation through dry pressing. The firing cycle, at a temperature of over 1200°C, enhances the exceptional aesthetic qualities, long life and resistance of the product. These characteristics make the products ideal for a wide range of different applications, both indoors and outdoors, and for both floors and wall tiling.

Appearance:

perpendicular sides and slightly rounded glazed surface, glossy, matt and natural. Maintenance: glaze does not retain dirt, total hygiene, easy to clean.

Features:

highly resistant to knocks, stains and abrasion, surfaces resistant to chemical agents and molds.

Versatility:

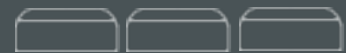
adaptable to any type of architecture, changes the appearance of the colour depending on the grouting.

The environment:

technological innovation, control of the production cycle steps, ongoing commitment to environmental protection, products 100% made in Italy.

The ceramic mosaic has unique features that set it apart from glass mosaics and make it one of a kind. Perpendicular sides, flat masonry and a slightly rounded glazed surface allow for perfect adhesion of the tiles during installation. Absolutely perfect in terms of aesthetics and shape, these mosaics result in projects and decorations that preserve their beauty and resistance over time.





CERAMIC MOSAICS GRIP

Maximum contact surface for gluing -
Glue can be spread all over the tile - Glue adheres completely, forming a single body with the stoneware surface - Will not come away over time

JOINT FILLING

Fills the whole joint and glue adheres perfectly, because the spaces are even and wide enough - Filler is compact, guaranteeing the hold of the tesserae in water and ensuring they do not come away

SIDES AND THICKNESS

Perpendicular sides and slightly rounded glazed surface - Maximum mechanical hold thanks to the "spike" effect of the filler - Excellent resistance to lateral thrust

WARPAGE

Even surface - Pleasant to the touch

TRANSPARENCY

Totally opaque glaze - Colour remains stable over time

CLEANING AND HYGIENE

Even surface - Glaze does not retain dirt - Total hygiene - Easy to clean



GLASS MOSAICS GRIP

Limited contact surface for gluing - Adheres with difficulty due to vinyl glue residue on the back of the tesserae -
glassy surface repels the adhesive - Risk of the tesserae coming away over time

JOINT FILLING

Difficult to fill the whole joint because of the small, uneven spaces - Filler tends to partially erode if submerged in water where algae form; possibility of the tesserae coming away

SIDES AND THICKNESS

Slanted sides with the joint thrusting outwards - Minimum lateral hold of the joint - Considerable reduction in mechanical hold

WARPAGE

Uneven surface - Unpleasant to the touch

TRANSPARENCY

Loss of brightness - Change in colour

CLEANING AND HYGIENE


Uneven surface - Dirt takes hold - Minimum hygiene - Difficult to clean







ISO: DENIM

Single press-firing

glazed ceramic tiles, dry pressed with low water absorption
 0.5% < E ≤ 3% - group B I b - M - GL - EN 14411 appendix H

TECHNICAL CHARACTERISTICS




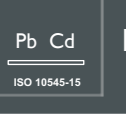

		standard	tolerances	results
	sides 298.4x298.4 mm	EN ISO 10545-2	± 0.5%	± 0.2%
	thickness 298.4x298.4 mm	EN ISO 10545-2	± 5%	± 4%
	straightness of edges	EN ISO 10545-2	± 0.5%	± 0.4%
	squareness	EN ISO 10545-2	± 0.6%	± 0.4%
	surface qualities	EN ISO 10545-2	< 95%	< 95%
	surface flatness	EN ISO 10545-2	± 0.5%	± 0.4%

physical properties	standard	requirements	results
 WATER ABSORPTION	ISO 10545-3	0.5% < E ≤ 3% appendix H	≤ 1%
 BREAKING STRENGTH IN N	ISO 10545-4	700 min. appendix H	> 1800
 FLEX RESISTANCE	ISO 10545-4	30 min. appendix H	> 50 N/mm ²
 IMPACT RESISTANCE	ISO 10545-5	testing method available	> 0.6 (appendix P)
 ABRASION RESISTANCE	ISO 10545-7	indicated by producer	see colours notes
 COEFFICIENT OF THERMAL LINEAR EXPANSION	ISO 10545-8	testing method available	< 7·10 ⁻⁶ /°C
 THERMAL SHOCK RESISTANCE	ISO 10545-9	testing method available	guaranteed
 MOISTURE EXPANSION	ISO 10545-10	testing method available	< 0.04%
 CRAZING RESISTANCE	ISO 10545-11	required	guaranteed
 FROST RESISTANCE	ISO 10545-11	required	guaranteed


Single press-firing

glazed ceramic tiles, dry pressed with low water absorption
 0.5% < E ≤ 3% - group B I b - M - GL - EN 14411 appendix H


TECHNICAL CHARACTERISTICS

chemical properties	standard	requirements	results
 CHEMICAL RESISTANCE	EN ISO 10545-13		
	resistance to chemical products for housekeeping & to the additives used in swimming pools	B min	A
	resistance to diluted acid & alkali solutions	indicated by producer	LA
	resistance to highly concentrated acid & alkali solutions	testing method available	HA
 FIRE RESISTANCE		decision 96/603/CE	class A1
 STAIN RESISTANCE	EN ISO 10545-14	class 3 min.	5 resistant
 LEAD & CADMIUM DISCHARGE	EN ISO 10545-15	testing method available	on request
 RESISTANCE OF COLOURS TO SUNLIGHT	DIN 51094	not envisaged	guaranteed


CLASSIFICATION






	standard	requisites	classification group
 ASSESSMENT OF SLIP RESISTANCE	DIN 51130 (feet with shoes on)	6° ÷ 10°	R9
		10° ÷ 19°	R10
		19° ÷ 27°	R11
		27° ÷ 35°	R12
		> 35°	R13
DIN 51097 (feet with shoes on)	< 12°	0	
	≥ 12°	A	
	≥ 18°	B	
	≥ 24°	C	



DENIM (DEN)


	standard	nominal shape	results
 ASSESSMENT OF SLIP RESISTANCE	DIN 51130	12x12 mm - 1/2" x 1/2"	R9 (7.2°)
	DIN 51097	12x12 mm - 1/2" x 1/2"	B (A+B) (19.7°)

DENIM (DAS)

	standard	nominal shape	results
 ASSESSMENT OF SLIP RESISTANCE	DIN 51130	12x12 mm - 1/2" x 1/2"	R11 (22.2°)
	DIN 51097	12x12 mm - 1/2" x 1/2"	C (A+B+C) (31°)

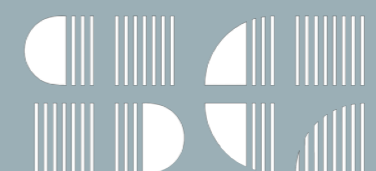
physical properties	standard	requirements	results
 WATER ABSORPTION <small>ASTM C373</small>	ASTM C373	$0.5\% < w_a \leq 3\%$	$\leq 3\%$ class P2
 BREAKING STRENGTH IN lbf <small>ASTM C648</small>	ASTM C648	≥ 250 lbf	≥ 250 lbf
 THERMAL SHOCK RESISTANCE <small>ASTM C484</small>	ASTM C484	testing method available	guaranteed
 CRAZING RESISTANCE <small>ASTM C424</small>	ASTM C242	required	guaranteed
 FROST RESISTANCE <small>ASTM C1026</small>	ASTM C1026	required	guaranteed

chemical properties	standard	requirements	results
 CHEMICAL RESISTANCE <small>ASTM C650</small>	ASTM C650	indicated by producer	guaranteed
 STAIN RESISTANCE <small>ASTM C1378</small>	ASTM C1378	required	guaranteed

 ASSESSMENT OF SLIP RESISTANCE	test method	requisites	results
	ANSI A137.1 (DEN test)	DCOF > 0.42	0.47
	ANSI A137.1 (DAS test)	DCOF > 0.42	0.69

Single press-firing: dry-pressed ceramic tiles obtained with single-press kiln firing, with low water absorption. $0,5\% < E \leq 3\%$ Group B I b - M - GL - EN 14411 appendix H (sizes 1,2x1,2 - 2,5x2,5 - 5x10 - 10x10 cm). Slow firing cycle. Freeze resistant.

DENIM



STONEGRES

Stonegres Limited
20-22 Wenlock Road
London
N1 7GU
tel: 020 8943 3154
info@stonegres.co.uk | www.stonegres.co.uk