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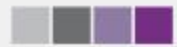
İnşaat Tesisat Paz. San. ve Tic. Ltd. Şti.

## RAINBOW PLUS SYSTEM BY CANAKKALE SERAMIK & KALEBODUR

Color is one of the most effective ways to express our feelings, to create the infrastructure for our moods. Rainbow Plus offers such a rich world of colors. It drives its color codes from the RAL-Design System. These codes have been used especially because the RAL color system is a global system that is used to select, specify, communicate and control color in the apparel, home furnishings, architectural and interior design industries. Thus Rainbow Plus speaks the global language of color. The system is unique not only for its rich color palette. By offering high quality tiles of different sizes with highly flexible modularity, the Rainbow Plus System enables perfect architectural solutions for professionals looking for the most efficient solutions where there is no tolerance for spatial or material losses.

With the Rainbow Plus System, Canakkale Seramik is the sole manufacturer supplying such an extensive range of color preferences, with 71 different color options. Rainbow Plus also offers a rich range of sizes. Since all sizes are modular, transitions and combinations between different colors and schemes are made possible. This facilitates the easier planning of wall and floor coverings. For example by selecting the same color but utilizing various sizes, or by combining color alternatives and different textures, it is possible to reliably satisfy special technical or architectural requirements, ranging from exterior wall cladding to anti-slip products for swimming pools. This means that the Rainbow Plus System is the only application system that can provide perfect solutions for customized decoration where there is no space for error or inefficiency. These perfect solutions also provide for a rich product line, including special modules such as those for corners and edges, allowing the overall design to perfectly match the nature of the space.

The Rainbow Plus System has matte, shiny and anti-slip surface alternatives. The different size alternatives enable the tiles to be paved both for floors and walls very easily. Plus because they are porcelain-based tiles, they are perfectly suitable for outdoor flooring as well. All mosaic products have plastic netting already applied. This also provides outdoor usage efficiency, as well as convenience of application.



# SURFACES

	Ice White	Bone	Ivory	Cream	Champaigne	Honey	Caramel	Cotto	Brown	Chocolate	Beige	Mink	Bitter	Light Powder	Dark Powder	Oxide Brown	Salmon	Pink	Coral	Scarlet	Carmen
Antislip																					
Glossy																					
Matte																					





	Sand Yellow	Pastel Orange	Orange	Soft Yellow	Lemon Yellow	Green Almond	Pistachio Green	Grass Green	Pastel Green	Cool Green	Moss Green	Pastel Blue	Pool Blue	Turquoise	Oil Blue	Sky Blue	Deep Blue	Aqua Blue	Cool Blue	Sax Blue	Cobalt Blue
Antislip																					
Glossy																					
Matte																					

	Soft Violet Blue	King Blue	Violet Blue	Lilac	Light Purple	Purple	Soft Dusty Rose	Dusty Rose	Claret	Cool Grey-1	Cool Grey-2	Cool Grey-3	Cool Grey-4	Cool Grey-5	Beige Grey	Warm Light Grey	Warm Grey	Brown Grey	Silk Grey	Concrete Grey	Platinum Grey
Antislip																					
Glossy																					
Matte																					

	Silver Grey	Pebble Grey	Dark Grey	Natural Grey-1	Natural Grey-2	Natural Grey-3	Natural Grey-4	Black
Antislip								
Glossy								
Matte								



# HARMONIOUS COLORS

 Ice White 100 90 05	 Honey 070 70 30		 Light Powder 060 80 10	 Salmon 030 80 10					
 Bone 080 90 05	 Caramel 060 70 30	 Beige 075 80 20	 Dark Powder 060 70 20	 Pink 030 70 20	 Sand Yellow 080 80 40	 Soft Yellow 095 80 40	 Green Almond 110 90 30		 Pastel Blue 230 80 10
 Ivory 090 90 10	 Cotto 060 50 40	 Mink 060 50 20	 Oxide Brown 050 40 20	 Coral 030 50 40	 Pastel Orange 060 70 40	 Lemon Yellow 090 80 70	 Pistachio Green 110 70 30	 Pastel Green 150 80 20	 Pool Blue 230 70 20
 Cream 080 90 10	 Brown 050 40 30	 Bitter 050 20 16		 Scarlet 030 40 60	 Orange 060 50 70		 Grass Green 120 60 50	 Cool Green 150 60 10	 Turquoise 220 50 20
 Champagne 080 80 20	 Chocolate 050 30 30			 Carmen 030 30 45				 Moss Green 150 30 10	 Oil Blue 230 30 20

						 Cool Grey-1 260 80 05	 Beige Grey 080 80 05			 Natural Grey-1 9000
			 Soft Violet Blue 280 70 10	 Lilac 300 60 15	 Soft Dusty Rose 360 80 05	 Cool Grey-2 240 70 05	 Warm Light Grey 060 70 05	 Silk Grey 080 70 05	 Silver Grey 160 80 05	 Natural Grey-2 8000
 Aqua Blue 240 80 10	 Cool Blue 260 50 25	 Sax Blue 280 30 35	 King Blue 280 60 20	 Light Purple 320 40 15	 Dusty Rose 360 50 10	 Cool Grey-3 260 60 05	 Warm Grey 060 60 05	 Concrete Grey 080 60 05	 Pebble Grey 120 80 05	 Natural Grey-3 6000
 Sky Blue 240 50 30	 Deep Blue 260 30 25	 Cobalt Blue 290 20 35	 Violet Blue 280 50 25	 Purple 320 20 25	 Claret 360 30 20	 Cool Grey-4 260 50 05	 Brown Grey 040 40 05	 Platinum Grey 060 40 05	 Dark Grey 240 50 05	 Natural Grey-4 4000
						 Cool Grey-5 260 30 10				 Black 1500

# RAL DESIGN SYSTEM

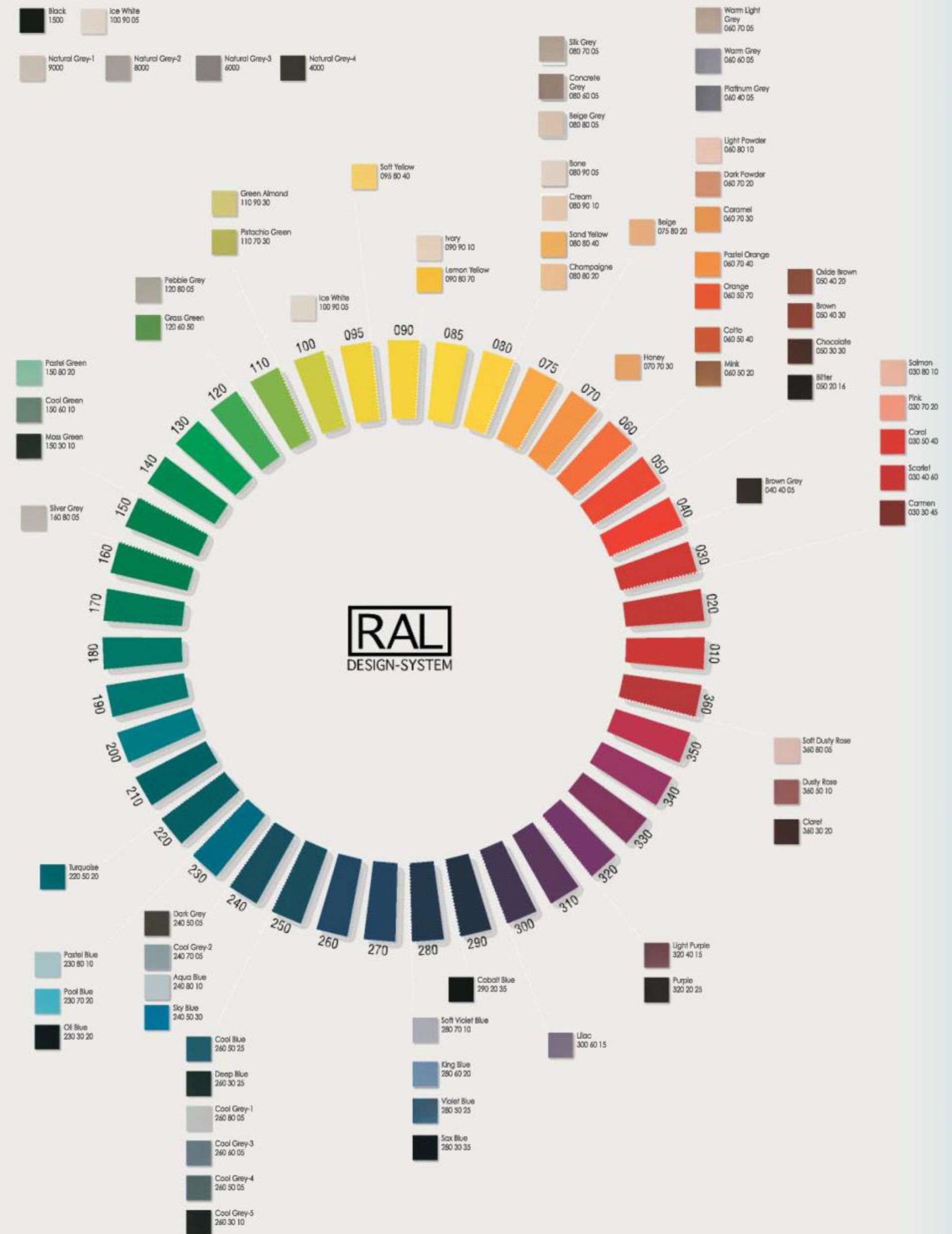
The Rainbow Plus System's unique color options are enabled by reference to the physical color system, RAL, which is based on CIE LAB color measurement method. Such an enriching color palette also enables the colors of your tiles to speak a global color language. In this system each color is represented by three numerical groups: the first group of digits, H, represents the hue or color family; the second group, L, indicates the degree of lightness and the third group, C, specifies the chroma or intensity of the color.

1. Group: H / Hue
2. Group: L / Lightness
3. Group: C / Chroma

Example:

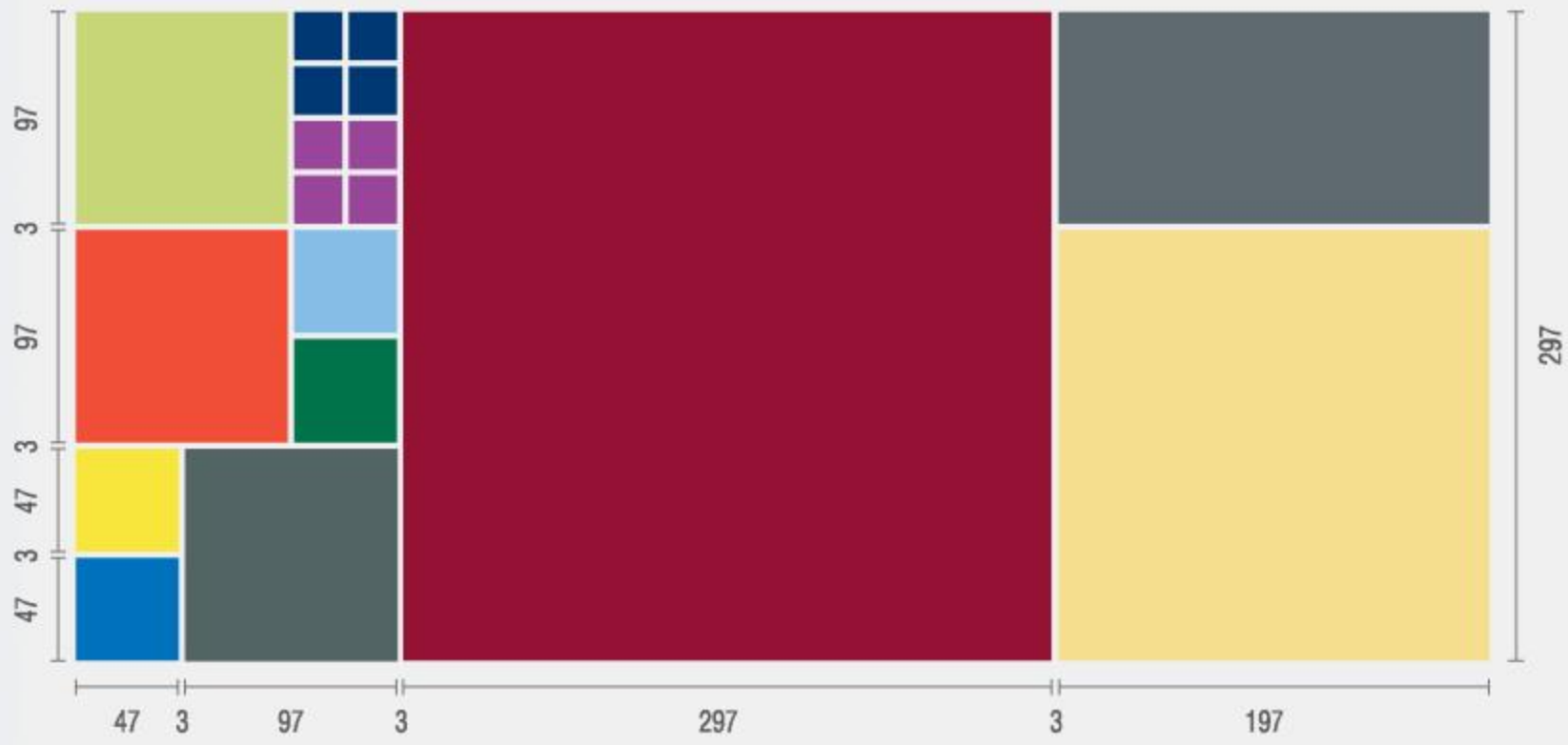
H	L	C
080	90	10

The H value corresponds to the number of the page in the RAL Design System (RAL-DS) atlas containing all the nuances of this particular hue. The atlas includes a total of 1688 colors. The RAL color circle begins with red (at the 3 o'clock position) and it is read in a counter-clockwise direction. Defining tile colors according to this system means that colors belonging to the same color family (H) can be combined. Similarly, it is possible to combine colors that have different H values but belong to the same lightness group (L) and colors that belong to different H groups but have a suitable chroma value (C).



## MODULARITY

It is possible to create the various compositions by using Rainbow Plus System Series tiles in different sizes such as 2.5x2.5 (23x23 mm), 5x5 (47x47 mm), 10x10 (97x97 mm), 10x20 (97x197 mm), 10x30 (97x297 mm), 20x20 (197x197 mm) and 30x30 (297x297 mm) in the same area easily due to its modularity.



## SIZES

2.5x2.5 cm / 1"x1"

10x10 cm / 4"x4"

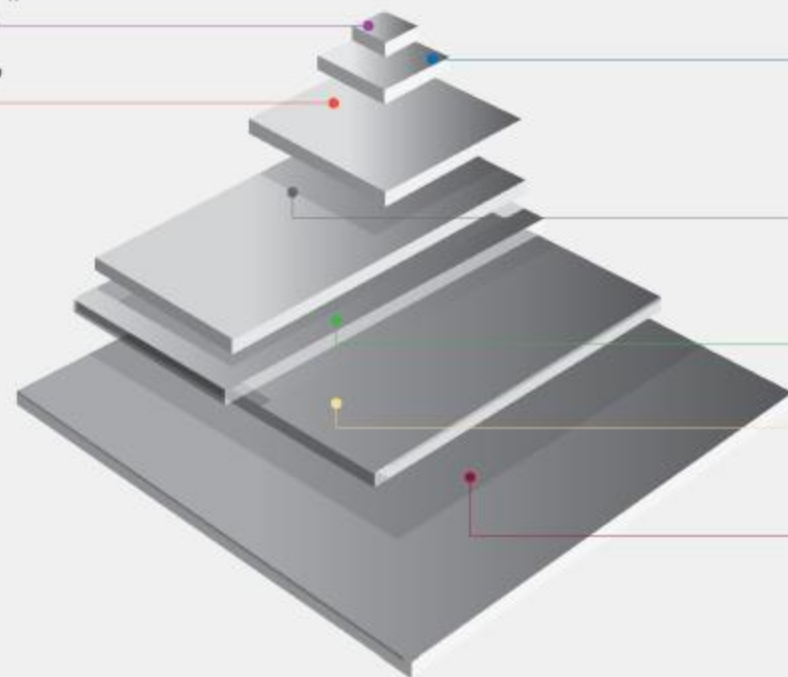
5x5 cm / 2"x2"

10x20 cm / 4"x8"

12.5x24 cm / 5"x9<sup>5</sup>/<sub>8</sub>"

20x20 cm / 8"x8"

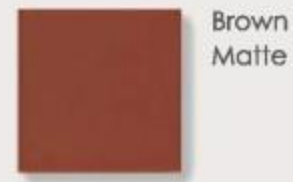
30x30 cm / 12"x12"



## RAINBOW PLUS SYSTEM SERIES



Ice White  
Matte / Glossy / Antislip



Brown  
Matte



Salmon  
Matte / Glossy



Soft Yellow  
Matte / Glossy



Pastel Blue  
Matte / Glossy



Sax Blue  
Matte / Antislip



Bone  
Matte / Glossy / Antislip



Chocolate  
Matte



Pink  
Matte / Glossy



Lemon Yellow  
Matte / Glossy



Cool Blue  
Matte / Glossy / Antislip



Cobalt Blue  
Matte / Antislip



Ivory  
Matte / Glossy



Beige  
Matte / Glossy / Antislip



Coral  
Matte / Glossy



Green Almond  
Matte



Turquoise  
Matte



Soft Violet Blue  
Matte / Glossy



Cream  
Matte / Glossy / Antislip



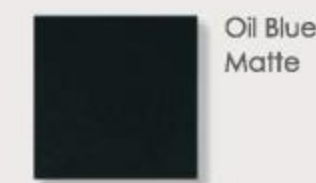
Mink  
Matte



Scarlet  
Matte / Glossy



Pistachio Green  
Matte / Glossy



Oil Blue  
Matte



King Blue  
Matte / Glossy



Champagne  
Matte / Glossy



Bitter  
Matte / Glossy



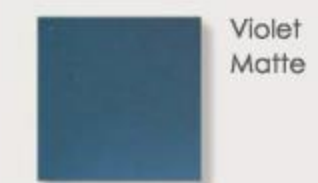
Carmen  
Matte



Grass Green  
Matte



Sky Blue  
Matte



Violet  
Matte



Honey  
Matte / Glossy



Light Powder  
Matte / Glossy



Sand Yellow  
Matte / Glossy



Pastel Green  
Matte



Deep Blue  
Matte



Lilac  
Matte



Caramel  
Matte / Glossy



Dark Powder  
Matte



Pastel Orange  
Matte / Glossy



Cool Green  
Matte



Aqua Blue  
Matte / Glossy



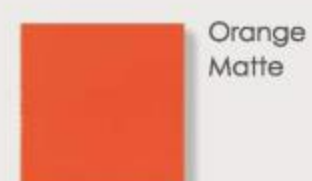
Light Purple  
Matte



Cotto  
Matte / Glossy



Oxide Brown  
Matte



Orange  
Matte



Moss Green  
Matte



Cool Blue  
Matte / Glossy



Purple  
Matte

## RAINBOW PLUS SYSTEM SERIES



Soft Dusty Rose  
Matte



Beige Grey  
Matte / Glossy



Pebble Grey  
Matte / Glossy



Dusty Rose  
Matte



Warm Light Grey  
Matte / Glossy



Dark Grey  
Matte / Glossy



Claret Red  
Matte



Warm Grey  
Matte / Glossy



Natural Grey-1  
Matte / Glossy / Antislip



Cool Grey-1  
Matte / Glossy



Brown Grey  
Matte



Natural Grey-2  
Matte / Glossy / Antislip



Cool Grey-2  
Matte / Glossy



Silk Grey  
Matte / Glossy



Natural Grey-3  
Matte / Glossy / Antislip



Cool Grey-3  
Matte / Glossy



Concrete Grey  
Matte / Glossy



Natural Grey-4  
Matte / Glossy



Cool Grey-4  
Matte / Glossy



Platinum Grey  
Matte / Glossy



Black  
Matte



Cool Grey-5  
Matte

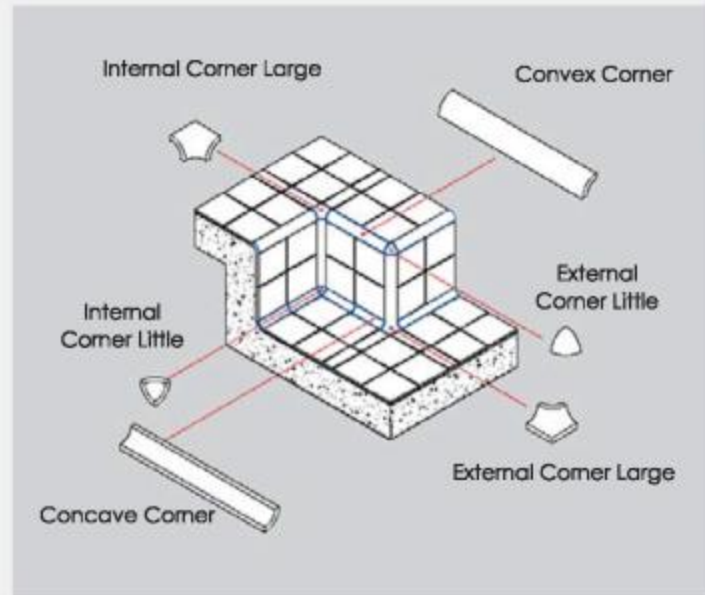


Silver Grey  
Matte / Glossy / Antislip







# ACCESSORIES

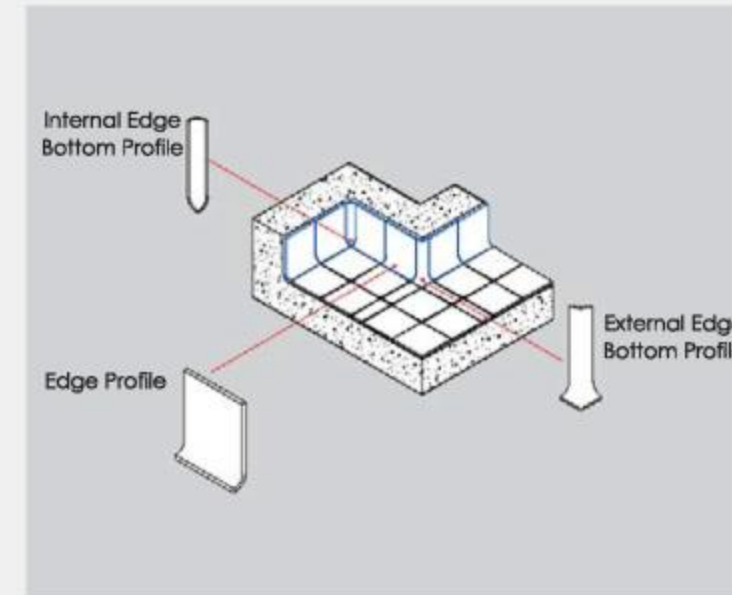


 <p><b>Internal Corner Large</b> (1 1/4" x 1 1/4")</p> <p>29011401 White 29011402 Sax blue 29011403 Pool blue</p>	 <p><b>Convex Corner</b> (1 1/4" x 8")</p> <p>29011251 White 29011252 Sax blue 29011253 Pool blue</p>
 <p><b>Convex Corner</b> (1 1/4" x 9 3/4")</p> <p>29011260 White 29011261 Sax blue 29011262 Pool blue</p>	 <p><b>Concave Corner</b> (1 1/4" x 8")</p> <p>29011201 White 29011202 Sax blue 29011203 Pool blue</p>

 <p><b>Concave Corner</b> (1 1/4" x 9 3/4")</p> <p>29011210 White 29011211 Sax blue 29011212 Pool blue</p>	 <p><b>Internal Corner Large</b> (1 1/4" x 1 1/4")</p> <p>29011451 White 29011452 Sax blue 29011453 Pool blue</p>
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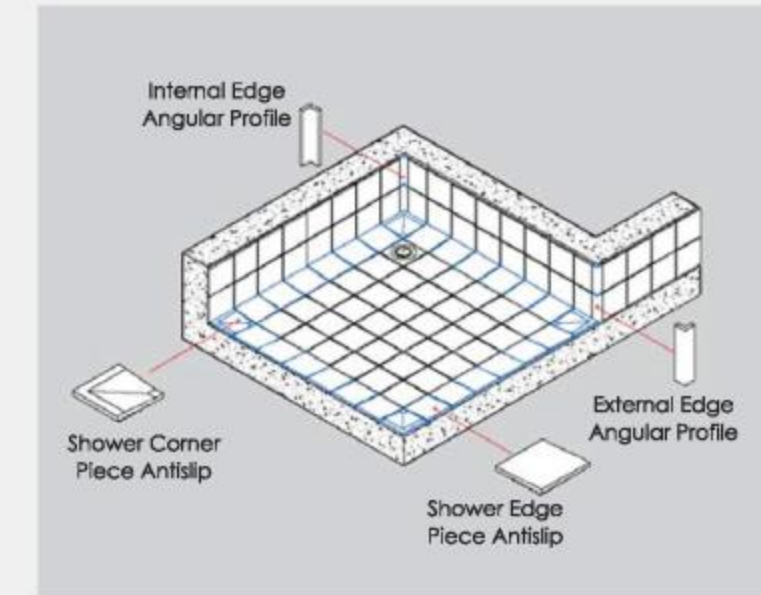
 <p><b>Internal Corner Little</b> (1 1/4" x 1 1/4")</p> <p>29011601 White 29011602 Sax blue 29011603 Pool blue</p>	 <p><b>External Corner Little</b> (1 1/4" x 1 1/4")</p> <p>29011651 White 29011652 Sax blue 29011653 Pool blue</p>
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# ACCESSORIES



 <p><b>Internal Edge Bottom Profile</b> (1 1/4" x 4")</p> <p>29026074 White 29011007 Sax blue 29011008 Pool blue 29011127 Light Grey 29011004 Black 29011006 Beige-2</p>	 <p><b>External Edge Bottom Profile</b> (1 1/4" x 4")</p> <p>29011056 White 29011053 Sax blue 29011059 Pool blue 29011137 Light Grey 29011054 Black 29011057 Beige-2</p>
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 <p><b>Edge Profile</b> (4" x 4")</p> <p>29011527 White 29011529 Sax blue 29011530 Pool blue 29011147 Light Grey 29011525 Black 29011528 Beige-2</p>
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 <p><b>Internal Edge Angular Profile</b> (1 1/4" x 4")</p> <p>29011103 White 29011105 Sax blue 29011106 Pool blue 29011167 Light Grey 29011101 Black 29011104 Beige-2</p>	 <p><b>External Edge Angular Profile</b> (1 1/4" x 4")</p> <p>29011153 White 29011155 Sax blue 29011156 Pool blue 29011117 Light Grey 29011151 Black 29011154 Beige-2</p>
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 <p><b>Shower Edge Piece Antislip</b> (4" x 4")</p> <p>29011010 White 29011012 Light Grey</p>	 <p><b>Shower Corner Piece Antislip</b> (4" x 4")</p> <p>29011022 Light Grey</p>
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## ANTI BACTERIAL & EASY CLEAN

The Rainbow Plus System has anti-bacterial and easy clean attributes as options. Easy clean is a modern application that is administered to wet surface tiles enabling water to flow off the surface more easily. This feature helps increase the durability of the product, as well as allowing for easier maintenance of the surfaces. Antibacterial is an option that allows surfaces to sustain high levels of hygiene, for instance where health is a consideration. Tiles with antibacterial surfaces have a covering glaze that decreases by 99% the ability of bacteria to form, offering an almost completely bacteria-free surface for up to 24 hours.



DAMLACIKLI  
FOTO



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FOTO



# RAINBOW PLUS SYSTEM

RAL CODE	PRODUCT NAME	COLOR GROUP	M 2,5 x 2,5 cm / 1" x 1" 23 x 23 x 6 mm porcelain			M 5 x 5 cm / 2" x 2" 47 x 47 x 6 mm porcelain			M 10 x 10 cm / 4" x 4" 97 x 97 x 6 mm porcelain			M 10 x 30 cm / 4" x 12" 97 x 297 x 6 mm porcelain			12 x 24,5 cm / 5" x 10" 125 x 240 x 6 mm porcelain			M 10 x 20 cm / 4" x 8" 97 x 197 x 6 mm porcelain			M 20 x 20 cm / 8" x 8" 197 x 197 x 6 mm porcelain			M 30 x 30 cm / 12" x 12" 297 x 297 x 7 mm porcelain		
			MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP	MATT	GLOSSY	ANTISLIP
150 80 20	Pastel Green	1				PMA-7201			MA-201																	
150 60 10	Coal Green	1				PMA-7202			MA-202																	
150 30 10	Moss Green	1				PMA-7203			MA-203																	
090 80 70	Lemon Yellow	1				PMA-7204	PMP-7204		MA-204	MP-204																
095 80 40	Soft Yellow	1				PMA-7205	PMP-7205		MA-205	MP-205		GS-A205												GS-A3205 M		
120 60 50	Grass Green	1				PMA-7206			MA-206																	
110 70 30	Pistachio Green	1				PMA-7207	PMP-7207		MA-207	MP-207		GS-A207	GS-P207		GS-A9207									GS-A3207 M		
110 90 30	Green Almond	1				PMA-7208			MA-208																	
280 70 10	Soft Violet Blue	2				PMA-7209	PMP-7209		MA-209	MP-209																
280 60 20	King Blue	2				PMA-7210	PMP-7210		MA-210	MP-210																
280 50 25	Violet Blue	2				PMA-7211			MA-211																	
360 80 05	Soft Dusky Rose	2				PMA-7212			MA-212																	
360 50 10	Dusty Rose	2				PMA-7213			MA-213																	
360 30 20	Ciaret	2				PMA-7214			MA-214																	
300 60 15	Lilac	2				PMA-7215			MA-215																	
320 40 15	Light Purple	2				PMA-7216			MA-216																	
320 20 25	Purple	2				PMA-7217			MA-217																	
230 70 20	Pool Blue	3				PMA-7218	PMP-7219	PMS-7219	MA-218	MP-218	MS-219	GS-A218	GS-P218		GS-A9218	GS-P9218	GAS-A9218	GS-A2218 M		GAS-A2218 M	GS-A3218 M		GAS-A3218 M	GS-A8218 M		
220 50 20	Turquoise	3				PMA-7219			MA-219																	
230 30 20	Oil Blue	3				PMA-7220			MA-220																	
230 80 10	Pastel Blue	3				PMA-7221	PMP-7222		MA-221	MP-221		GS-A221	GS-P221		GS-P9221									GS-A3221 M		GS-A8221 M
240 50 30	Sky Blue	3				PMA-7222			MA-222																	
260 30 25	Deep Blue	3				PMA-7223			MA-223																	
240 80 10	Aqua Blue	3				PMA-7224	PMP-7224		MA-224	MP-224		GS-P224		GS-P9224												
260 50 25	Coal Blue	3				PMA-7225	PMP-7225		MA-225	MP-225		GS-P225		GS-P9225												
280 30 35	Sax Blue	3				PMA-7226		PMS-7226	MA-226		MS-226				GAS-A9226	GS-A2226 M					GS-A3226 M		GAS-A3226 M			
290 20 35	Cobalt Blue	3				PMA-7227		PMS-7227	MA-227		MS-227				GAS-A9227	GS-A2227 M					GS-A3227 M		GAS-A3227 M			
160 80 05	Silver Grey	4				PMA-7228	PMP-7228	PMS-7228	MA-228	MP-228	MS-228	GS-A228	GS-P228											GS-A3228 M		GAS-A3228 M
120 80 05	Pebble Grey	4				PMA-7229	PMP-7229		MA-229	MP-229																
240 50 05	Dark Grey	4				PMA-7230	PMP-7230		MA-230	MP-230																
080 70 05	Silk Grey	4				PMA-7231			MA-231	MP-231																
080 60 05	Concrete Grey	4				PMA-7232	PMP-7232		MA-232	MP-232																
060 40 05	Platinum Grey	4				PMA-7233	PMP-7233		MA-233	MP-233																
080 80 05	Beige Grey	4				PMA-7234	PMP-7234		MA-234	MP-234														GS-A3234 M		
060 70 05	Warm Light Grey	4				PMA-7235	PMP-7235		MA-235	MP-235																
060 60 05	Warm Grey	4				PMA-7236	PMP-7236		MA-236	MP-236														GS-A3236 M		
040 40 05	Brown Grey	4				PMA-7237			MA-237																	
9000	Natural Grey -1	4				PMA-7238	PMP-7238	PMS-7238	MA-238	MP-238	MS-238	GS-A238			GAS-A9238	GS-A2238 M					GS-A3238 M		GAS-A3238 M	GS-A8238 M		
8000	Natural Grey -2	4				PMA-7239	PMP-7239	PMS-7239	MA-239	MP-239	MS-239	GS-A239			GAS-A9239	GS-A2239 M					GS-A3239 M		GAS-A3239 M	GS-A8239 M		
6000	Natural Grey -3	4				PMA-7240	PMP-7240	PMS-7240	MA-240	MP-240	MS-240	GS-A240		GS-A9240	GAS-A9240	GS-A2240 M					GS-A3240 M		GAS-A3240 M	GS-A8240 M		
4000	Natural Grey -4	4				PMA-7241	PMP-7241		MA-241	MP-241														GS-A3241 M		GS-A8241 M
1500	Black	4				PMA-7242	PMP-7242		MA-242	MP-242		GS-A242												GS-A3242 M		GS-A8242 M
260 80 05	Coal Grey -1	4				PMA-7243	PMP-7243		MA-243	MP-243																
240 70 05	Coal Grey -2	4				PMA-7244	PMP-7244		MA-244	MP-244																
260 60 05	Coal Grey -3	4				PMA-7245	PMP-7245		MA-245	MP-245																
260 50 05	Coal Grey -4	4				PMA-7246	PMP-7246		MA-246	MP-246																
260 30 10	Coal Grey -5	4				PMA-7247			MA-247																	
080 80 20	Champaigne	5				PMA-7248	PMP-7248		MA-248	MP-248														GS-A3248 M		GS-A8248 M
070 70 30	Honey	5				PMA-7249	PMP-7249		MA-249	MP-249														GS-A3249 M		GS-A8249 M
060 50 40	Café	5				PMA-7250	PMP-7250		MA-250	MP-250														GS-A3250 M		GS-A8250 M
050 40 30	Brown	5				PMA-7251			MA-251																	
050 30 30	Chocolate	5				PMA-7252			MA-252																	
090 90 10	Ivory	5				PMA-7253	PMP-7253		MA-253	MP-253		GS-A253												GS-A3253 M		GS-A8253 M
080 90 10	Crème	5				PMA-7254	PMP-7254	PMS-7254	MA-254	MP-254	MS-254	GS-A254												GS-A3254 M		GS-A8254 M
075 80 20	Beige	5				PMA-7255	PMP-7255	PMS-7255	MA-255	MP-255	MS-255	GS-A255												GS-A3255 M		GS-A8255 M
060 70 30	Caramel	5				PMA-7256	PMP-7256		MA-256	MP-256		GS-A256												GS-A3256 M		GS-A8256 M
060 50 20	Mink	5				PMA-7257			MA-257																	
060 80 10	Light Powder	5				PMA-7258	PMP-7258		MA-258	MP-258																
060 70 20	Dark Powder	5				PMA-7259			MA-259																	
050 40 20	Oxide Brown	5				PMA-7260			MA-260																	
050 20 16	Bitter	5				PMA-7261	PMP-7261		MA-261	MP-261		GS-A261	GS-P261											GS-A3261 M		GS-A8261 M
030 80 10	Salmon	6				PMA-7262	PMP-7262		MA-262	MP-262		GS-A262												GS-A3262 M		GS-A8262 M
030 70 20	Pink	6				PMA-7263	PMP-7263		MA-263	MP-263		GS-A263												GS-A3263 M		
030 50 40	Coral	6				PMA-7264			MA-264																	
030 40 60	Scarlet	6				PMA-7265	PMP-7265		MA-265	MP-265		GS-P265		GS-P9265										GS-A3264 M		
030 30 45	Carmin	6				PMA-7266			MA-266																	

# TECHNICAL SPECIFICATIONS

## GLAZED PORCELAIN TILES TECHNICAL CHARACTERISTICS

TS-EN	TECHNICAL CHARACTERISTICS	TURKISH and EUROPEAN STANDARD TS-EN 14411 ANNEX G GL GROUP B1a	GLAZED PORCELAIN FLOOR TILES
ISO 10545-2	Length and width (L=cm, S=cm <sup>2</sup> )	190 < S ≤ 410 ± 0.75% S > 410 ± 0.6%	± 0.4%
ISO 10545-2	Thickness	± 0.5%	± 0.4%
ISO 10545-2	Rectangularity	± 0.6%	± 0.4%
ISO 10545-2	Straightness of Sides	± 0.5%	± 0.3%
ISO 10545-2	Surface Flatness	± 0.5%	± 0.3%
ISO 10545-3	Water Absorption	E ≤ 0.5% individual max. 0.6%	≤ 0.5%
ISO 10545-4	Breaking strength, in N		
ISO 10545-4	Thickness ≥ 7.5 mm	Not less than 1300	1700 N
ISO 10545-4	Thickness < 7.5 mm	Not less than 700	-
ISO 10545-4	Modules of Rupture (N/mm <sup>2</sup> )	Min.35 Individual Min.32	Min.35
ISO 10545-7	Resistance to Surface Abrasion for Glazed Tile	Report abrasion class and cycles passed	Class : 1-2-3-4-5
ISO 10545-8	Linear Thermal Expansion Coefficient	Test method available	AFFIRMATIVE
ISO 10545-5	Impact Resistance	Test method available	AFFIRMATIVE
ISO 10545-9	Resistance to Thermal Shock	Test method available	AFFIRMATIVE
ISO 10545-11	Crazing Resistance in Glazed Tiles	Required	RESISTANT
ISO 10545-12	Frost Resistance	Required	RESISTANT
ISO 10545-13	Resistance to Chemicals	Required	RESISTANT
	Resistance to low concentrations of acids and alkalis		
	Glazed Tiles	Manufacturer to state classification	GLA-GLB
	Resistance to high concentrations of acids and alkalis		
	Glazed Tiles	Test method available	AFFIRMATIVE
	Resistance to household chemicals and swimming pool salts		
	Glazed Tiles	Min. GB	Min. GB
ISO 10545-14	Resistance to Staining		
	Glazed Tiles	Min. Class-3 for Glazed Tile	Min. Class-3
DIN 51130 DIN 51097	Ramp Slip Resistance (Oil / Wet)	Where required	R = - ; 09 ; 10 ; 11 ; 12 ; 13 CLASS = - ; A ; B ; C

## GLAZED FLOOR TILES TECHNICAL CHARACTERISTICS

TS-EN	TECHNICAL CHARACTERISTICS	TURKISH and EUROPEAN STANDARD TS-EN 14411 ANNEX G GL GROUP B1a	GLAZED PORCELAIN FLOOR TILES
ISO 10545-2	Length and width (L=cm, S=cm <sup>2</sup> )	190 < S ≤ 410 ± 0.75% S > 410 ± 0.6%	± 0.4%
ISO 10545-2	Thickness	± 0.5%	± 0.4%
ISO 10545-2	Rectangularity	± 0.6%	± 0.4%
ISO 10545-2	Straightness of Sides	± 0.5%	± 0.3%
ISO 10545-2	Surface Flatness	± 0.5%	± 0.3%
ISO 10545-3	Water Absorption	0.5% < E ≤ 3% Individual Max. 3.3%	< 0.3%
ISO 10545-4	Breaking strength, in N		
ISO 10545-4	Thickness ≥ 7.5 mm	Not less than 1100	1550 N
ISO 10545-4	Thickness < 7.5 mm	Not less than 700	1400 N
ISO 10545-4	Modules of Rupture (N/mm <sup>2</sup> )	Min.30 Individual Min.27	Min. 30
ISO 10545-7	Resistance to Surface Abrasion for Glazed Tile	Report abrasion class and cycles passed	Class : 1-2-3-4-5
ISO 10545-8	Linear Thermal Expansion Coefficient	Test method available	AFFIRMATIVE
ISO 10545-5	Impact Resistance	Test method available	AFFIRMATIVE
ISO 10545-9	Resistance to Thermal Shock	Test method available	AFFIRMATIVE
ISO 10545-11	Crazing Resistance in Glazed Tiles	Required	RESISTANT
ISO 10545-12	Frost Resistance	Required	RESISTANT
ISO 10545-13	Resistance to Chemicals	Required	RESISTANT
	Resistance to low concentrations of acids and alkalis		
	Glazed Tiles	Manufacturer to state classification	GLA-GLB
	Resistance to high concentrations of acids and alkalis		
	Glazed Tiles	Test method available	AFFIRMATIVE
	Resistance to household chemicals and swimming pool salts		
	Glazed Tiles	Min. GB	Min. GB
ISO 10545-14	Resistance to Staining		
	Glazed Tiles	Min. Class-3 for Glazed Tile	Min. Class-3
DIN 51130 DIN 51097	Ramp Slip Resistance (Oil / Wet)	Where required	R = - ; 09 ; 10 ; 11 ; 12 ; 13 CLASS = - ; A ; B ; C

# PACKAGING

## GLAZED WALL TILES

PACKING					
SIZE	THICKNESS (MM)	SQUAREMETERS PER BOX (M <sup>2</sup> -LM)	TILES PER BOX (PCS)	SQUAREMETERS PER PALLET (M <sup>2</sup> -LM)	BOXES PER PALLET (AD/PCS)
8"x8" WALL TILE	8"x8" WALL TILE 7	1.00	25	120	120
4"x12" WALL TILE	4"x12" WALL TILE 7	1.00	34	84	84
4"x4" WALL TILE	4"x4" WALL TILE 8				
4"x4" WALL TILE ON PAPERNET	4"x4" WALL TILE ON PAPERNET				

## PORCELAIN TILE

PACKING					
SIZE	THICKNESS (MM)	SQUAREMETERS PER BOX (M <sup>2</sup> -LM)	TILES PER BOX (PCS)	BOX WEIGHT (KG)	BOXES PER PALLET (PCS)
12"x12" FLOOR TILE	7.8	1.35	15	23.20	63
8"x8" FLOOR TILE	7	1.00	25	14.80	88
4"x8" FLOOR TILE	7	1.00	50	15.20	88
4"x4" FLOOR TILE	7	1.00	100	14.57	84
4"x4" FLOOR TILE ON PAPERNET	7	1.00	99	13.46	56
2"x2" FLOOR TILE ON PAPERNET	7	1.00	396	13.36	56
1"x1" FLOOR TILE ON PAPERNET	7	1.00	1584	12.36	56

# SYMBOLS

## AREAS OF USE

Hotel	Business Center	Shopping Center	Luxury Residence	Residence	Factory, Warehouse
Facade	Restaurant, Cafe	Pool	Outside	Hospital	

## TECHNICAL CHARACTERISTICS

Surface Quality	Rectangularity Abweichung vom Rechteck	Surface Flatness Rechtwinkelligkeit	Surface Flatness Oberflächen-Flachheit	Deviations from Dimensions	Tile Thickness 11 mm
Tile Thickness 30 mm	Surface Hardness (Mohs)	Abrasion Resistance	Friction of Abrasion	Bending Resistance	Frost Resistance
Water Absorption	Crazing Resistance	Linear Thermal Expansion Coefficient	Resistance to Thermal Shock	Resistance to Acids and Chemicals	Cracking Resistance in Glazed Tiles
Resistance to Stains in Glazed Tiles	Resistance to Household Chemicals				

Our company reserve the right to modify the products illustrated in this catalogue for production purposes or to improve their quality. The colours of the products in this catalogue can have some irregularities because of the printing process.

