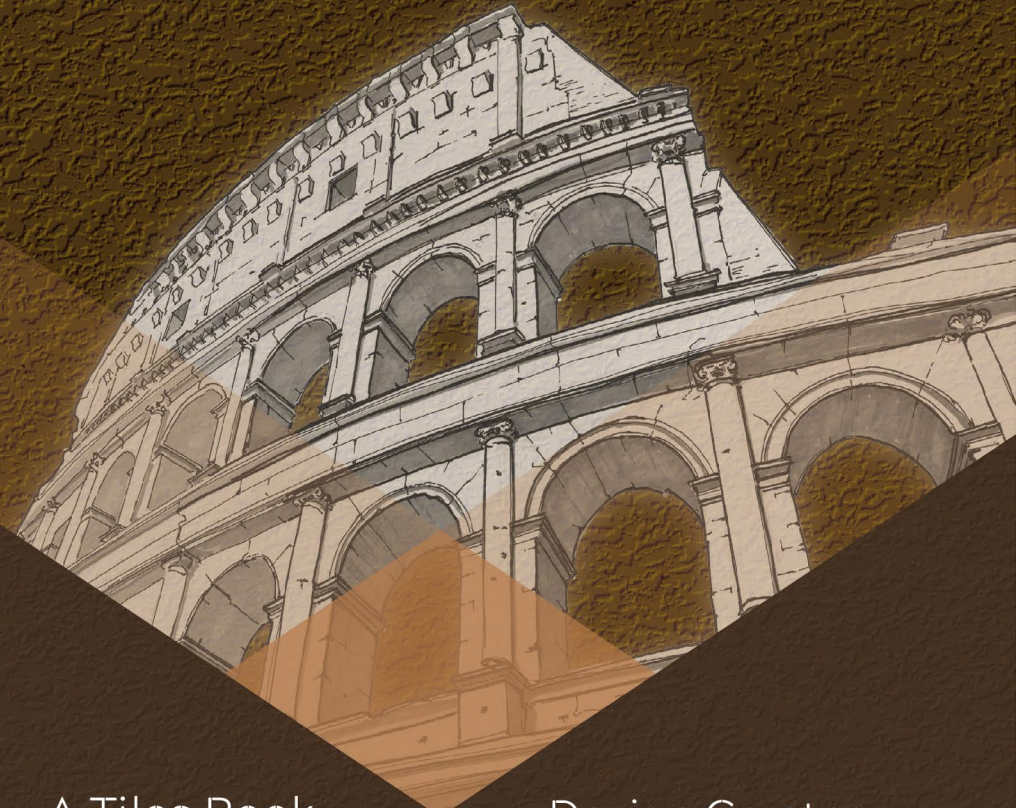




xceramics



# WALL & FLOOR TILES COLLECTION



x ALEXANDER  
THE KING OF TILES

WE ARE ONE | WE ARE



Exclusive Display Center :  
Noorjahan Tower, (1st Floor)  
2 No. Link Road, Bangla Motor, Dhaka 1000

XIC Point,  
213/2, 213/3 & 213/5  
Bir Uttam Rafiqul Islam Sarani, Middle Badda, Dhaka-1212.  
Tel: +88 02 9847141, +88 02 9846442, +88 02 58817175  
Fax: +88 02 9856110  
Email: info@xceramics.com

Mobile: 01844004202  
Fax: +880258814759  
xceramics.com  
alexandertilesbd

SUMMER EDITION 2025

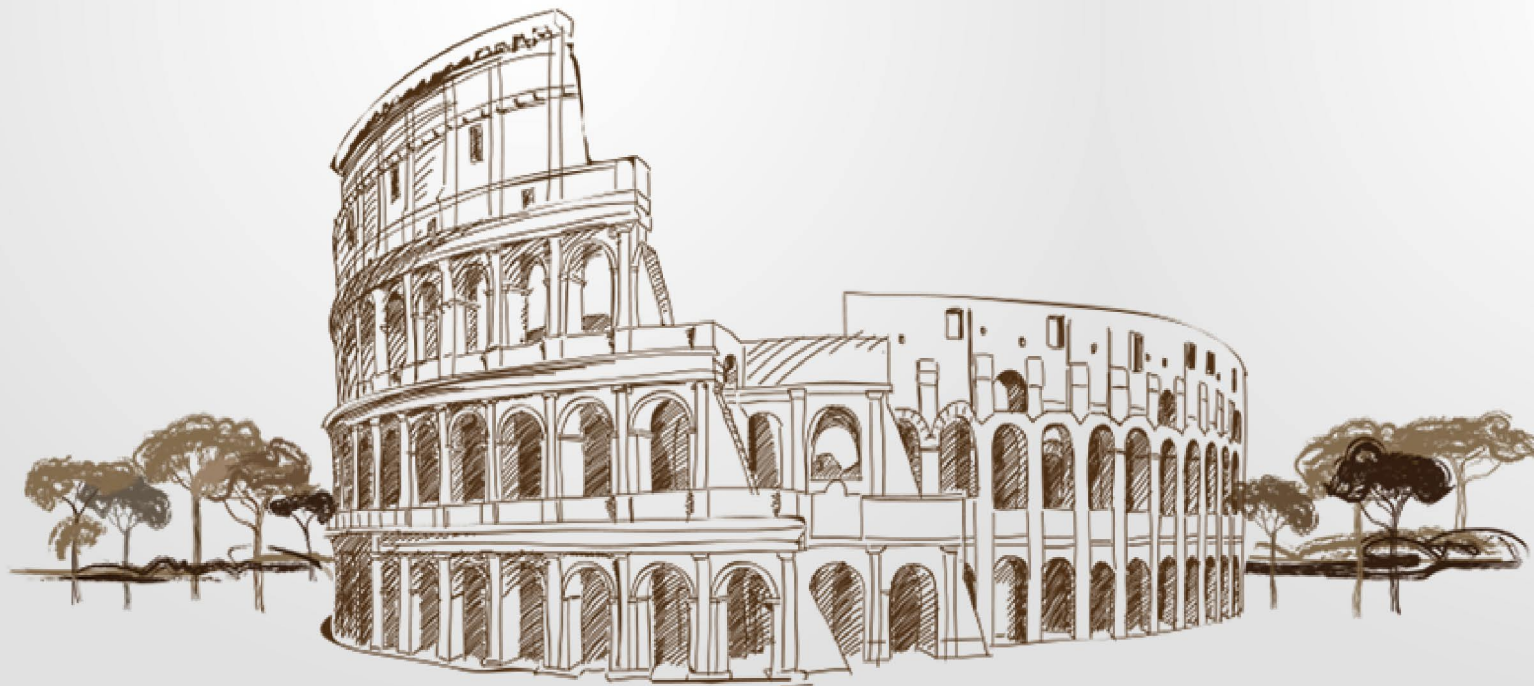
A Tiles Book

Design Creates  
*Culture*



# INCEPTED BY ITALIANS

Let the *Italian* spectacles of  
exoticness make a statement of intent with  
their allure on behalf of your  
*style and decor*



X Alexander, a promising brand of X Ceramics Group incepted in October 2015, and part of the X Index Companies, a well – known conglomerate of Bangladesh with high repute existing from the year 1977, is the leader or aptly the king of popular tiles; this series is affordable and long-lasting.

Within a short span X Alexander is now available pan Bangladesh. Our tiles are manufactured in one of the most technologically advanced manufacturing facility. Our range covers wall & floor areas of bathrooms, living rooms, bedrooms, kitchens, balconies and also commercial applications in offices, shopping malls etc.

Manufactured with the latest Digital Printing technology, it exhibits a natural look, replicating Italian marbles, wooden textures and different types of geometric patterns, raw materials being imported from world class sources give the end products a cutting edge over the competitors. Source from internationally renowned design houses from Spain, Italy and China, our products satiate our customers ably well.

X Alexander is determined to attain multiple milestones in the near future with steadfast growth and undaunted commitment. It is great bearer of innovation, the extensive product portfolio contains many unique tiles in Bangladesh. The versatile client of X Alexander appreciated the unique surface and solutions in the past.

X Alexander once again brings an array of design for the valued patrons.

**X** ALEXANDER  
THE KING OF TILES



60x60

# FLOOR TILES

60x120



40x40

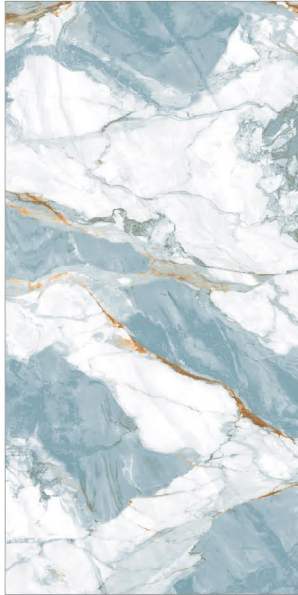
80x80

# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x120



ANP 126007



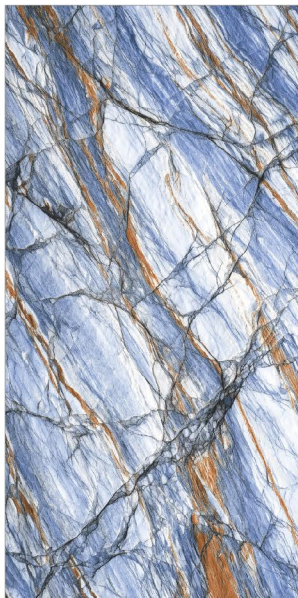
ANP 126008



ANP 126009



ANP 126010



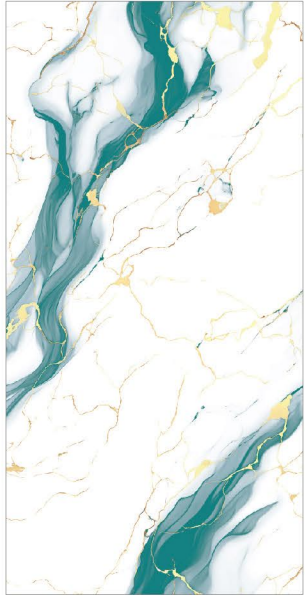
ANP 126011

# NANO MIRROR POLISHED TILES



# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x120



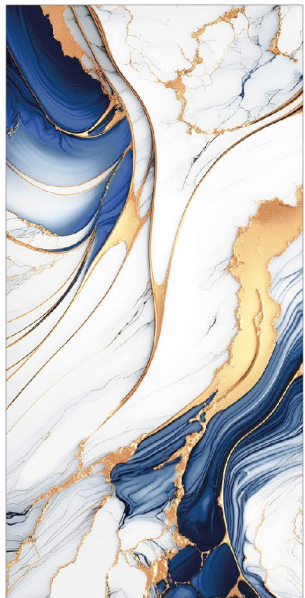
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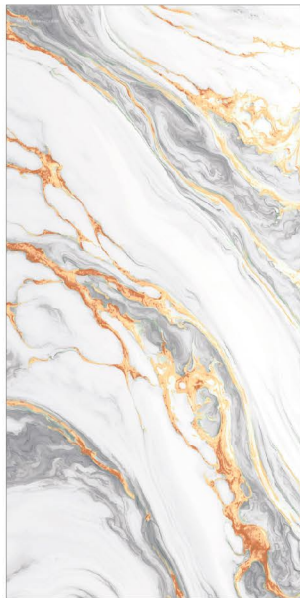
ANP 126013



ANP 126014



ANP 126015



ANP 126017

# NANO MIRROR POLISHED TILES



MICRO TECHNOLOGY VITRIFIED TILES | GLOSSY (POLISHED)

Floor | Size: 80x80



AMTVT 80801



AMTVT 80807



AMTVT 80808

MICRO TECHNOLOGY VITRIFIED TILES



# MICRO TECHNOLOGY VITRIFIED TILES | GLOSSY (POLISHED)

Floor | Size: 80x80



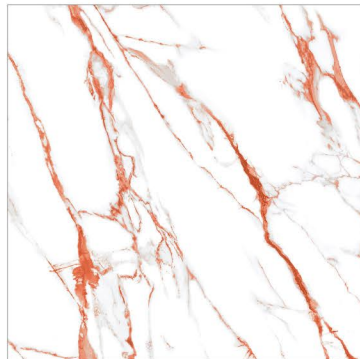
AMTVT 80809



AMTVT 80810



AMTVT 80811



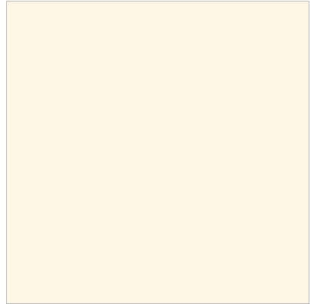
AMTVT 80812

# MICRO TECHNOLOGY VITRIFIED TILES

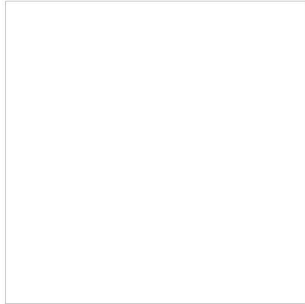


# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



AGVT 1100



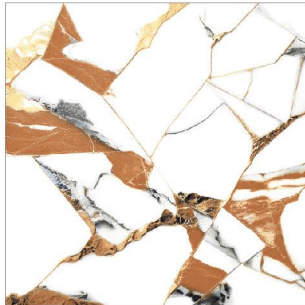
AGVT 1200



AGVT 1202



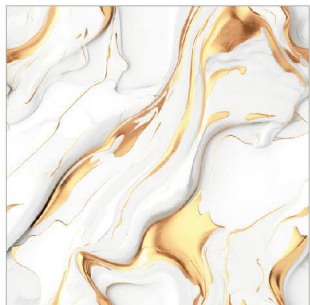
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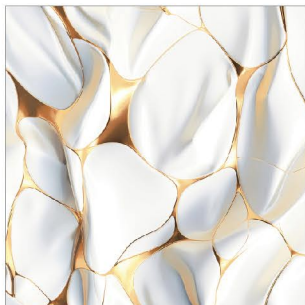
AGVT 1206



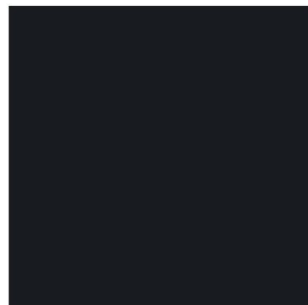
AGVT 1208



AGVT 1209



AGVT 1210



AGVT 1211

# NANO MIRROR POLISHED TILES



# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



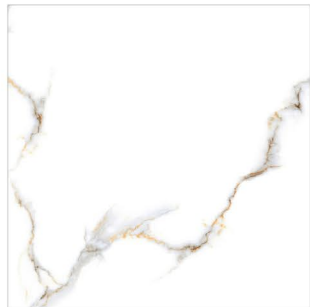
AGVT 1220



AGVT 1236



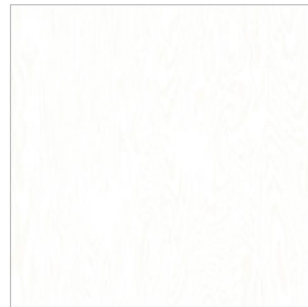
AGVT 1247



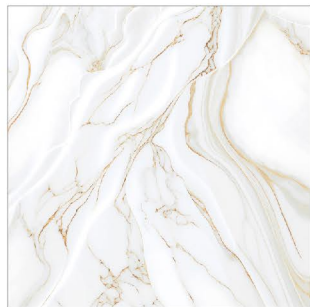
AGVT 1250



AGVT 1253



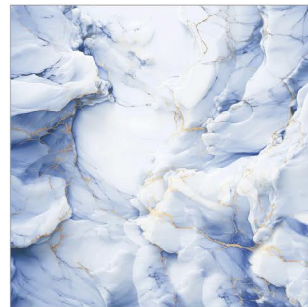
AGVT 1255



AGVT 1256



AGVT 1257



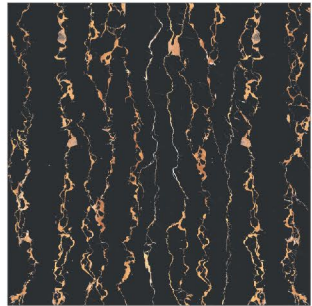
AGVT 1259

# NANO MIRROR POLISHED TILES



# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



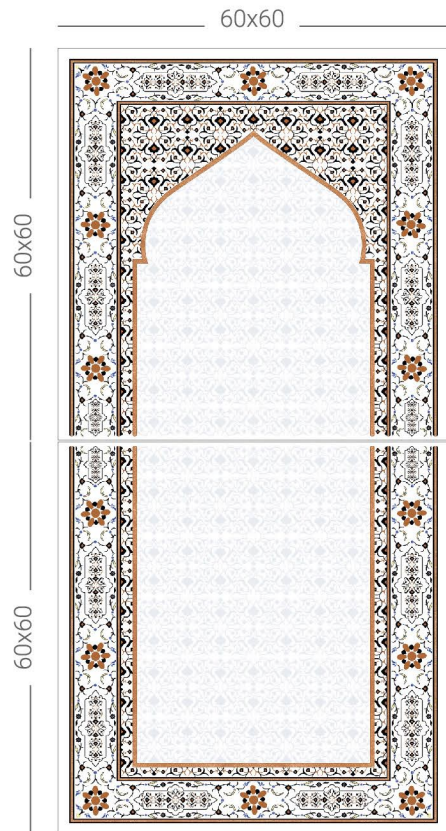
AGVT 1262



# NANO MIRROR POLISHED TILES

# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



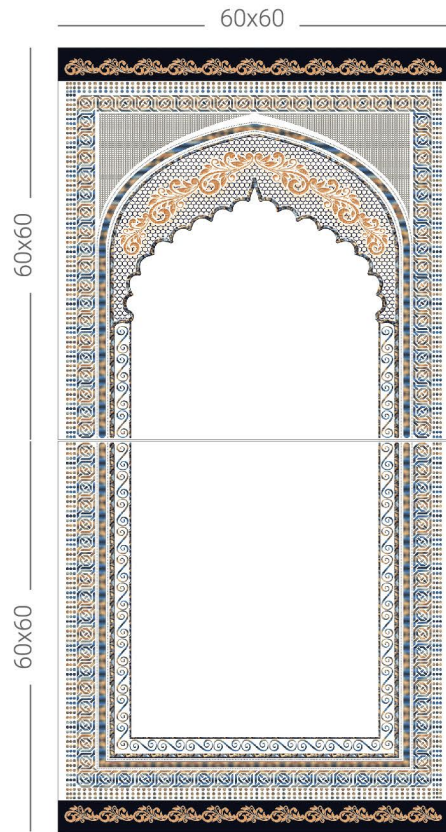
AGVT 1280 (JAYNAMAZ)

# NANO MIRROR POLISHED TILES



# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



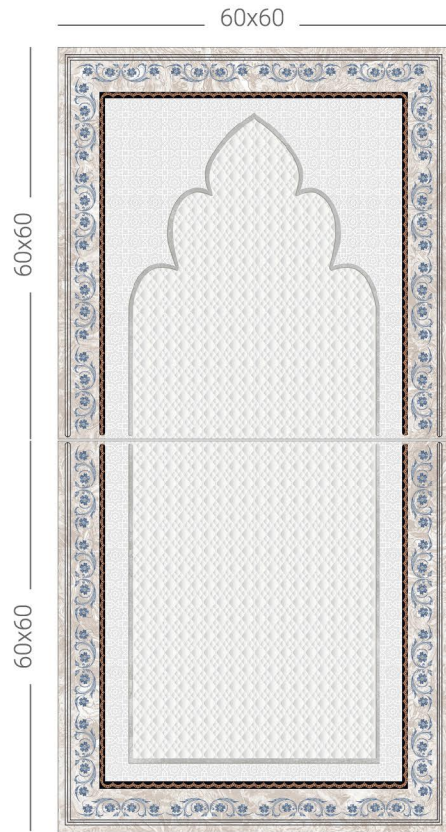
AGVT 1299 (JAYNAMAZ)

# NANO MIRROR POLISHED TILES



# GERMI PROOF TILES

Floor | Size: 60x60



AGPJ 8000/1

# ANTIMICROBIAL TECHNOLOGY JAYNAMAZ | MATT



## GERMI PROOF SOLIDO | GLOSSY

Floor | Size: 60x60



ARGNP 660001 MA

## ANTIMICROBIAL TECHNOLOGY



# ROYAL PLANK | MATT

Floor | Size: 60x60



ARS 66653



ARS 66654

# ROYAL PLANK | MATT

Floor | Size: 15x60



ARS 15653



ARS 15654

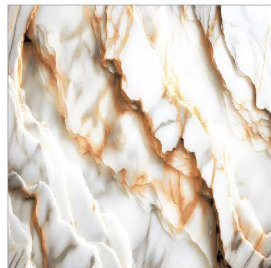


# TRANSPARENT GLAZE | GLOSSY

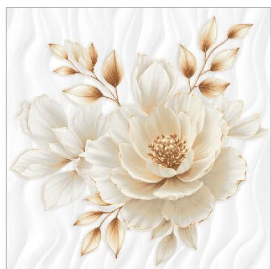
Floor | Size: 40x40



ATG 455



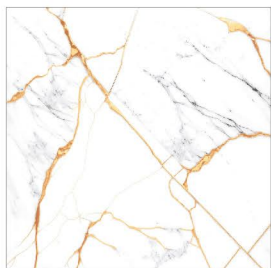
ATG 472



ATG 477



ATG 478



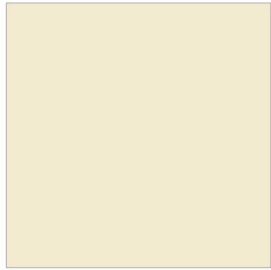
ATG 479

# TRANSPARENT GLAZE



## HOMOGENEOUS

Floor & Stair | Size: 40x40



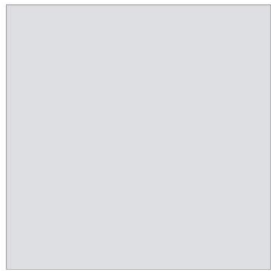
AH 400 N



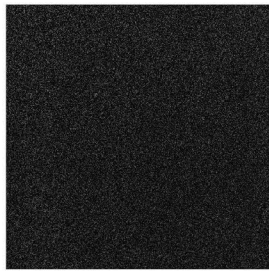
AH 44001



AH 44002

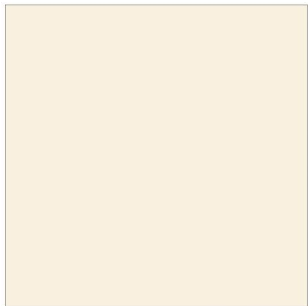


AH 44003



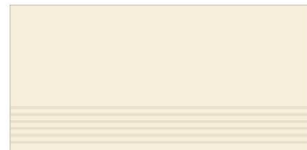
AH 44004

Size: 60x60



AH 800 (OFF WHITE)

Size: 30x60



AHSTP 830 (OFF WHITE)



AHSTP 3060

## HOMOGENEOUS

Floor & Stair | Size: 30x30



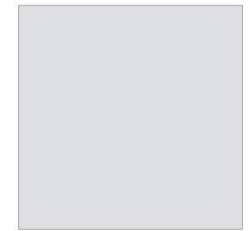
AH 200 (OFF WHITE)



AH 2001



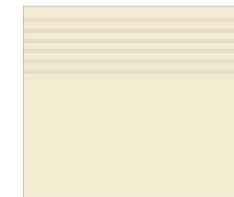
AH 2002



AH 2003

## HOMOGENEOUS

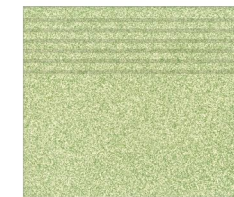
Floor & Stair | Size: 26x30



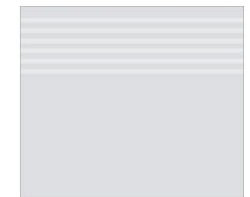
AHSTP 200  
(OFF WHITE)



AHSTPN 201



AHSTPN 202



AHSTPN 203

# STONE SHIELD | MATT

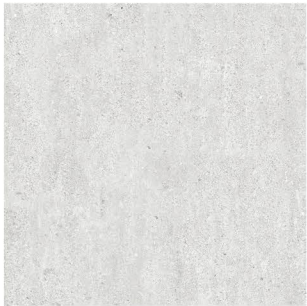
Floor | Size: 60x60



AST 812 L



AST 812 HL



AST 814 GY



AST 816

# STONE SHIELD

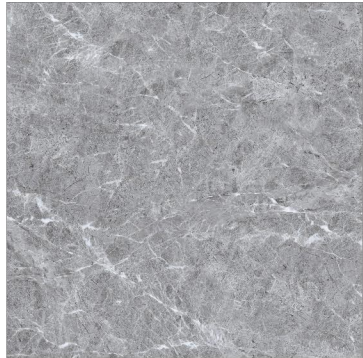


# STONE SHIELD | POLISH

Floor | Size: 80x80



ASSDP 88801



ASSDP 88802



ASSDP 88803

# STONE SHIELD



## STONE SHIELD | MATT

Floor | Size: 60x120



AST 61201



AST 61205

## STONE SHIELD



## STONE SHIELD | MATT

Stair| Size: 30x60



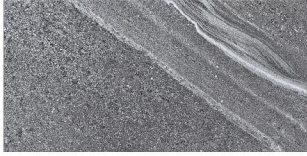
ASTP 852



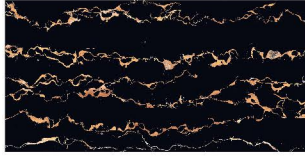
ASTP 855



ASTP 857



ASTP 858



AHSTP 862



APSTP 868

## RISER | MATT

Size: 30x60



ASTR 3060852



ASTR 3060855



ASTR 3060857



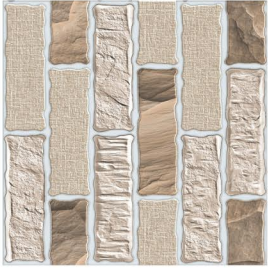
ASTR 3060858

## STONE SHIELD



# STONE SHIELD | MATT

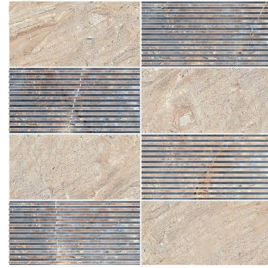
Floor | Size: 40x40



AST 408



AST 409



AST 410

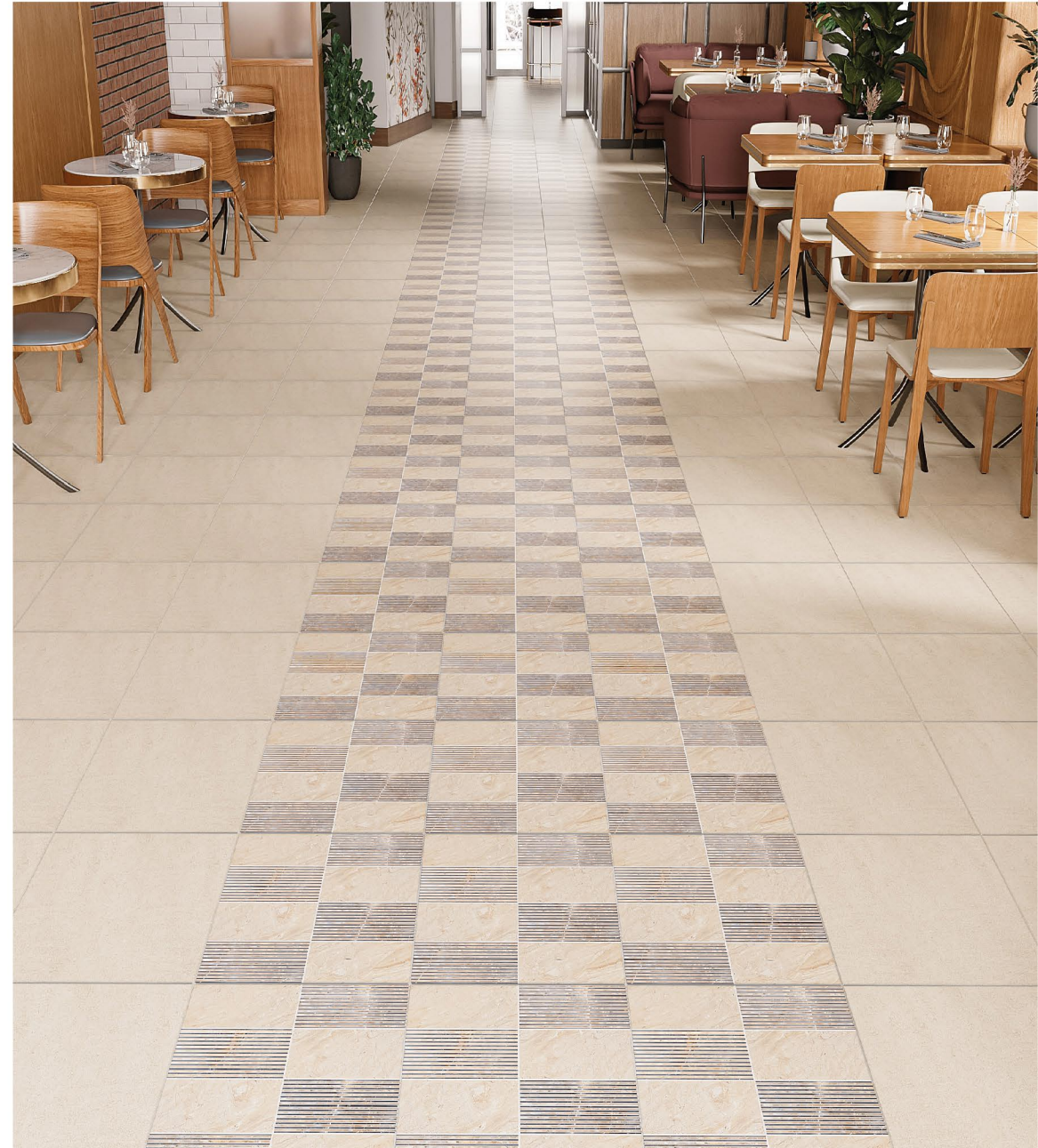


AST 411



AST 430

# STONE SHIELD | MATT

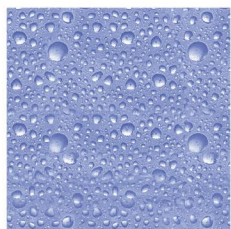


# ANTI SLIP | MATT

Floor | Size: 30x30



AHDF (AS) 220 D



AHDF (AS) 226 D



AHDF (AS) 363



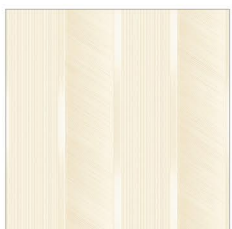
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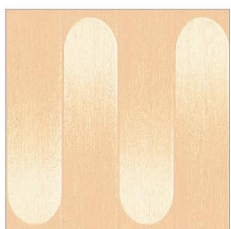
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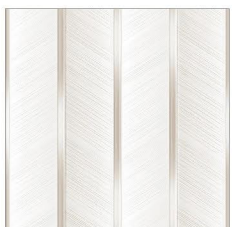
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AHDF (AS) 375



AHDF (AS) 376



AHDF (AS) 377



AHDF (AS) 3003



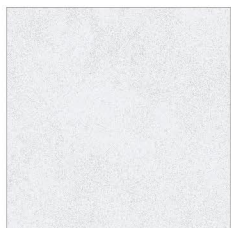
AHDF (AS) 3022



AHDF (AS) 3023



AHDF (AS) 33001



AHDF (AS) 33002



AHDF (AS) 33003



AHDF (AS) 33005

# ANTI SLIP | MATT



# OUTDOOR | MATT

Floor | Size: 30x30



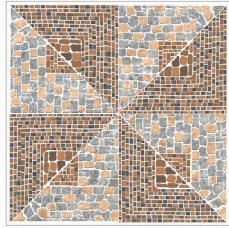
AOD 3101



AOD 3102



AOD 3103



AOD 3121



AOD 3122



AOD 3123



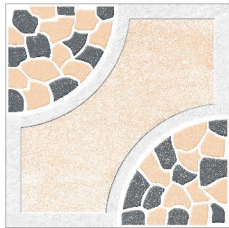
AOD 3124



AOD 3125



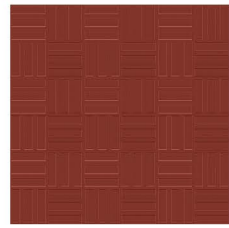
AOD 3126



AOD 3127



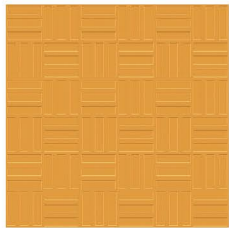
AOD 3128



AOD 3130 R



AOD 3131 BK



AOD 3132 Y

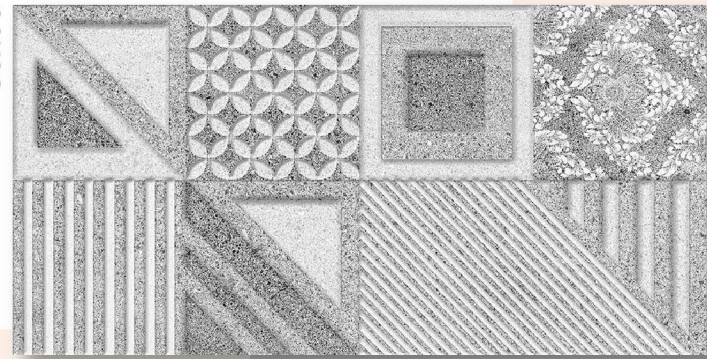
# OUTDOOR





## WALL TILES

30x60



30x60

30x60

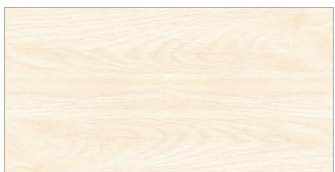
## WALL & FLOOR MATCHING TILES

### GLOSSY WALL

Size: 30x60



AHDW 707 BR



AHDW 709 L



AHDW 709 HL



AHDW 709 D



## PRIMA SERIES 3D | GLOSSY WALL

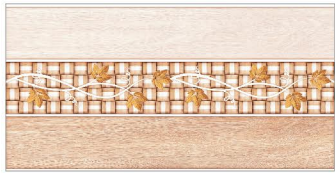
Glossy Wall: Size: 30x60 | Floor: 30x30



ARPW 7003 L



ARPW 7004 L



ARPW 7003 HL



ARPW 7004 HL



ARPW 7003 HL 2



AHDF (AS) 364



ARPW 7003 D



AHDF (AS) 363

## PRIMA SERIES 3D



## PRIMA SERIES 3D

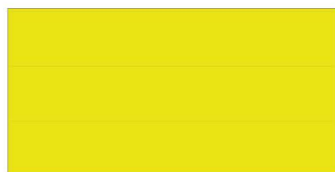
Glossy Wall: Size: 30x60



ARPW 7010 L



ARPW 7010 HL



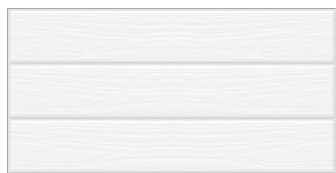
ARPW 7010 D



ARPW 7012 L



ARPW 7012 HL



ARPW 7011 L



ARPW 7011 HL



ARPW 7011 HL2



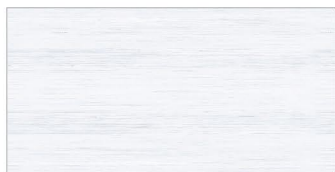
ARPW 7011 D

## PRIMA SERIES 3D



## WALL TILES | GLOSSY WALL

Size: 30x60



AHDWN 60302 L



AHDWN 60302 HL



AHDWN 60302 D



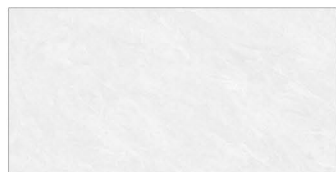
AHDWN 60304 L



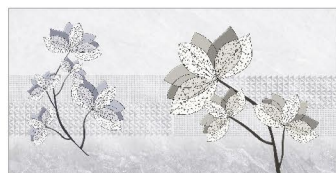
AHDWN 60304 HL



AHDWN 60304 D



AHDWN 60303 L



AHDWN 60303 HL



AHDWN 60303 D



AHDWN 60305 L



AHDWN 60305 HL



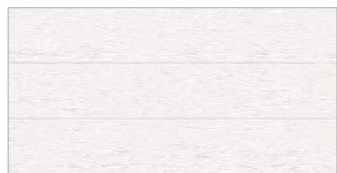
AHDWN 60305 HL 2

## WALL TILES | GLOSSY WALL

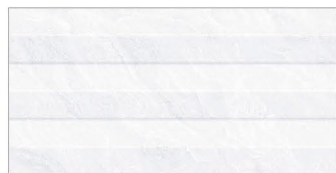


## WALL TILES | GLOSSY WALL

Size: 30x60



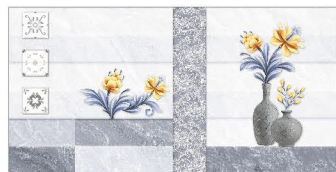
AHDWN 60308 L



AHDWN 603011 L



AHDWN 60308 HL



AHDWN 603011 HL



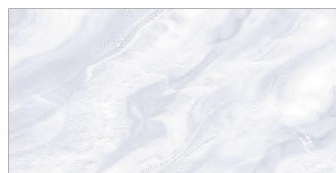
AHDWN 60308 D



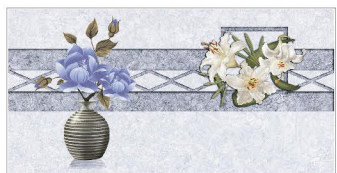
AHDWN 603011 D



AHDWN 60309 L



AHDWN 603012 L



AHDWN 60309 HL



AHDWN 603012 HL

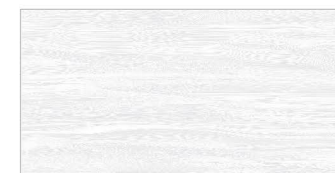


AHDWN 60309 D



AHDWN 603012 D

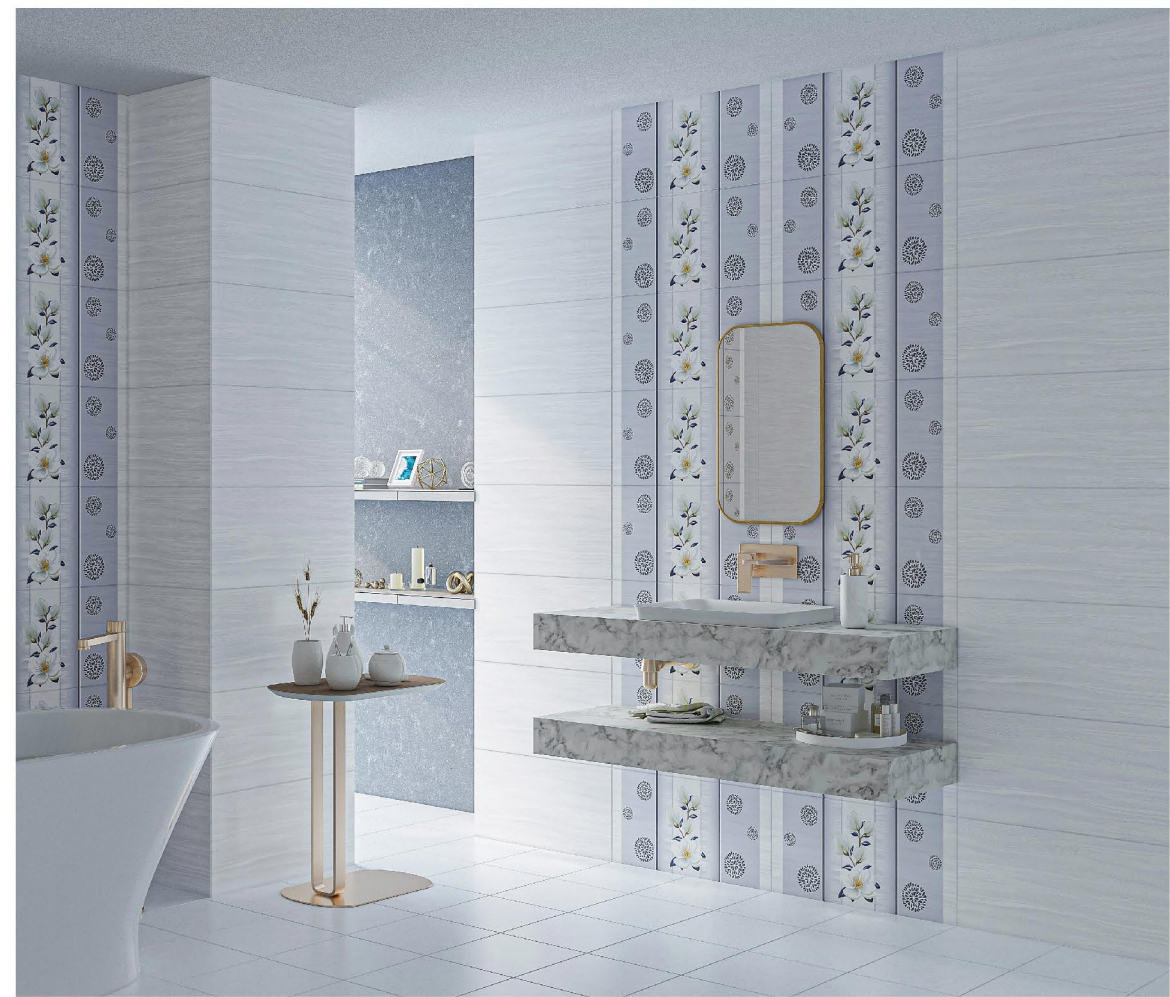
## WALL TILES | GLOSSY WALL



AHDWN 603010 L

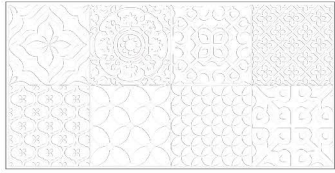


AHDWN 603010 HL



## ROYAL SERIES | GLOSSY

Glossy Wall: Size: 30x60



AWRS 630001



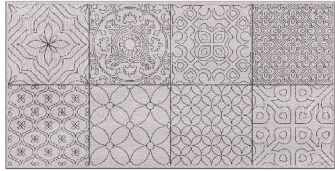
AWRS 630002



AWRS 630003



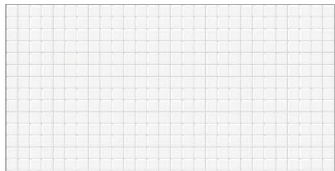
AWRS 630004



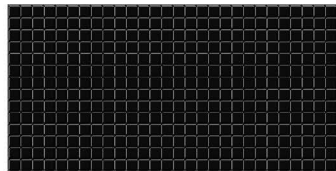
AWRS 630005



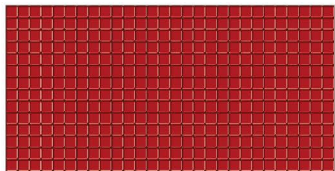
AWRS 630006



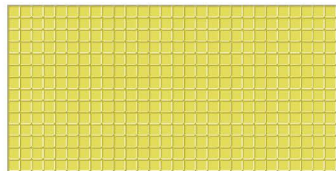
AWRS 630030



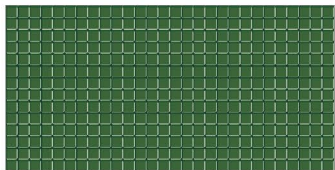
AWRS (BK) 630031



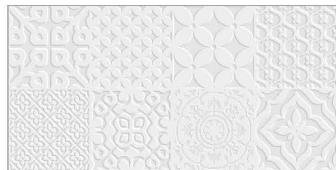
AWRS (R) 630032



AWRS (Y) 630033



AWRS (GD) 630034



AWRS (WH) 630035

## ROYAL SERIES | GLOSSY

Glossy Wall: Size: 30x60



AWRS (BK) 630036



## SUGAR X SERIES

Wall Tiles | Size: 30x60cm



ARTW 60033

## SUGAR X SERIES

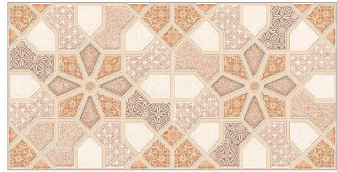


## ROCK X | WALL & FLOOR MATCHING TILES

Matt Wall | Size: 30x60cm | Floor: 30x30cm



ARS 30602 L



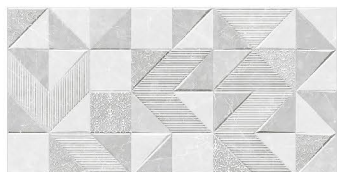
ARS 30602 HL



AST 3011



ARS 30609 L



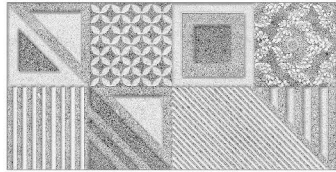
ARS 30609 HL



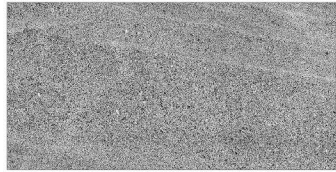
ARS 30609 D



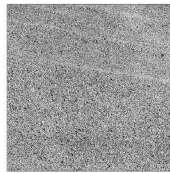
ARS 30603 L



ARS 30603 HL



ARS 30603 HL



AST 3012



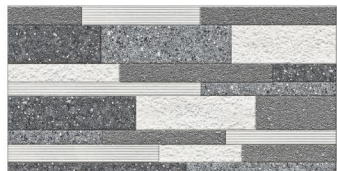
ARS 30605

## ROCK X | WALL & FLOOR MATCHING TILES



## ROCK X | WALL & FLOOR MATCHING TILES

Matt Wall | Size: 30x60cm | Floor: 30x30cm



ARS 306010



ARS 306011



ARS 306012



ARS 306013



ARS 306014



ARS 306014 HL

## ROCK X | WALL & FLOOR MATCHING TILES



### 3D CRYSTAL WALL TILES

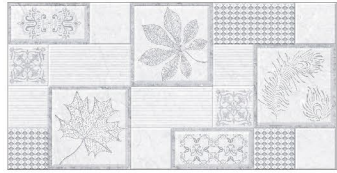
Matt Wall | Size: 30x60cm



AGMS 36001 L



AGMS 36006 L



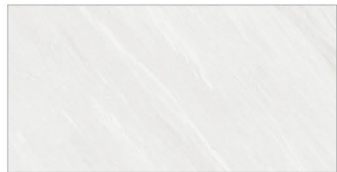
AGMS 36001 HL



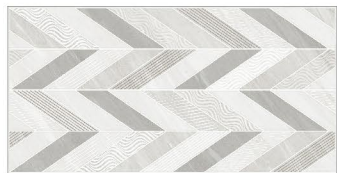
AGMS 36006 HL



AGMS 36001 D



AGMS 36007 L



AGMS 36007 HL

### 3D CRYSTAL WALL TILES



## SATIN MATT

Matt Wall | Size: 30x60



ASM 300602 L



ASM 300602 HL



ASM 300602 D



ASM 300603 L



ASM 300603 HL

## SATIN MATT



## SUGAR EFFECT TILES

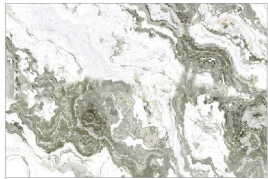
Wall Tiles | Size: 30x45cm



ASDW 5001 L



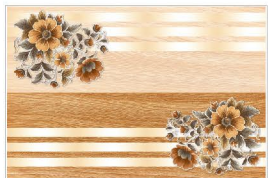
ASDW 5001 HL



ASDW 5001 D



ASDW 5003 L



ASDW 5003 HL



ASDW 5003 D



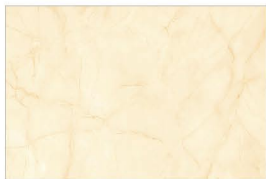
ASDW 5002 L



ASDW 5002 HL



ASDW 5002 D



ASDW 5005 L



ASDW 5005 HL



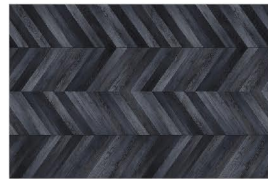
ASDW 5004 L



ASDW 5004 HL



ASDW 5004 HL1



ASDW 5004 D

## SUGAR EFFECT TILES

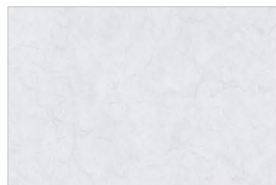


## WALL & FLOOR MATCHING TILES

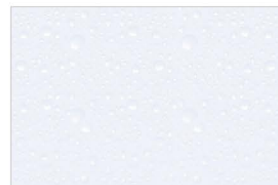
Glossy Wall Tiles | Size: 30x45cm | Floor: 30x30cm



AHDW 511 L



AHDW 514 L



AHDW 520 L



AHDW 511 HL



AHDW 514 HL



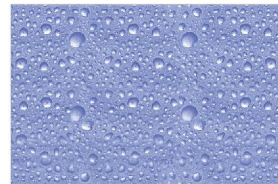
AHDW 520 HL



AHDW 511 D



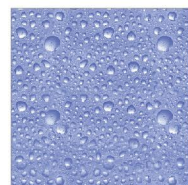
AHDW 514 D



AHDW 520 D



AHDF (AS) 219 L



AHDF (AS) 226 D



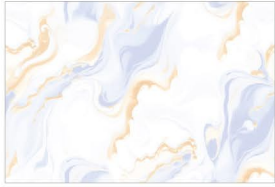
AHDF (AS) 220 D

## WALL & FLOOR MATCHING TILES

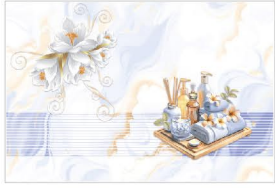


## WALL TILES

Glossy Wall | Size: 30x45cm



AHDW 533 L



AHDW 533 HL



AHDW 535 L



AHDW 535 HL



AHDW 535 D



AHDW 537 L



AHDW 537 HL



AHDW 537 HL 1



AHDW 537 D

## WALL TILES



## WALL TILES | GLOSSY

Wall | Size: 30x45



AHDW 531



AHDW 536 L



AHDW 536 HL



AHDW 536 D



## WALL TILES

## STONE PUNCH | GLOSSY

Wall | Size: 30x45



AHDW 504 L



AHDW 505 L



AHDW 558 L



AHDW 504 HL



AHDW 505 HL



AHDW 558 HL



AHDW 504 D



AHDW 558 D



AHDW 559 L



AHDW 570 L



AHDW 559 HL



AHDW 570 HL



AHDW 559 D



AHDW 570 D

## STONE PUNCH | GLOSSY

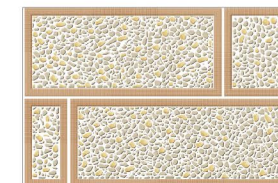
Wall | Size: 30x45



AHDW 550 L



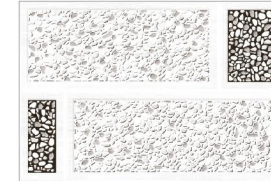
AHDW 552 L



AHDW 553 L



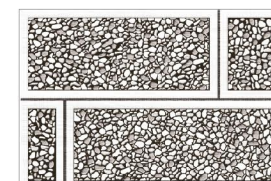
AHDW 550 HL



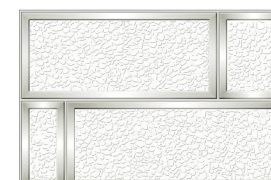
AHDW 552 HL



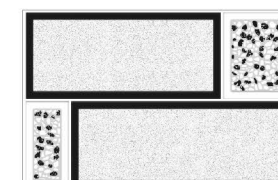
AHDW 553 HL



AHDW 552 D



AHDW 554 L



AHDW 555 L



AHDW 554 HL



AHDW 555 HL

# WALL TILES | GLOSSY

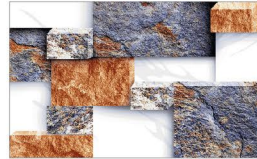
Size: 25x40



AW 300



AW 340 L



AW 331



AW 340 HL



AW 340 D



AW 338 L



AW 339 L



AW 338 HL



AW 339 HL



AW 338 D



AW 339 D

# WALL TILES



# 3D PUNCH | GLOSSY

Wall | Size: 20x30



AW 1020 L



AW 1024 L



AW 1022 L



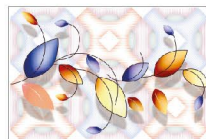
AW 1031 L



AW 1020 HL



AW 1024 HL1



AW 1022 HL



AW 1031 HL



AW 1020 HL2



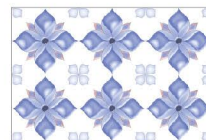
AW 1024 HL2



AW 1020 D



AW 1024 D



AW 1026 BL



AW 1029



AW 1040 L



AW 1041 L



AW 1055 L



AW 1056 L



AW 1040 HL



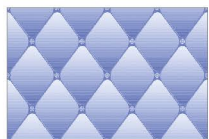
AW 1041 HL



AW 1055 HL



AW 1056 HL



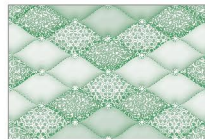
AW 1040 D



AW 1041 D



AW 1055 D



AW 1056 D

# 3D PUNCH



## WALL TILES | GLOSSY

Wall | Size: 20x30



AW 101 L



AW 102 L



AW 103 L



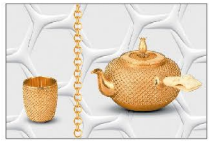
AW 101 HL



AW 102 HL



AW 103 HL



AW 101 HL1



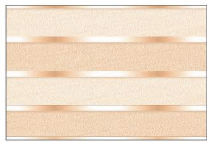
AW 102 D



AW 103 D



AW 157 L



AW 159 L



AW 170 L



AW 157 HL1



AW 159 HL



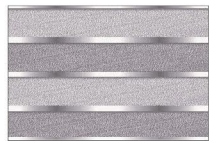
AW 170 HL2



AW 157 D



AW 159 D



AW 170 D

## WALL TILES | GLOSSY

Wall | Size: 20x30



AW 100



AW 118 BK



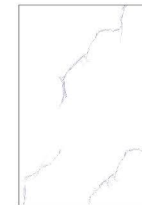
AW 118 BL



AW 118 BR



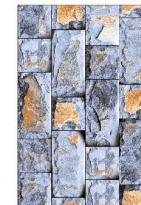
AW 129



AW 156



AW 167



AW 168



AW 169



# ROYAL SOLIDO | GLOSSY

Wall | Size: 20x30



ARSW 23000 R



ARSW 23001 Y



ARSW 23002 GR



ARSW 23003 SB



ARSW 23004 BL



## Technical Specifications & Packaging Details

### Nano Mirror Polished Tiles

Work Size		Pieces / Box	Coverage / Box	Weight / Box (Approx.)	Box / Pallet	Coverage / Pallet
Dimensions (in mm)	Thickness (in mm)	(nos)	(sqft)	(kgs)	(nos)	(sqft)
600 x 600	9.9 - 10.2	4	15.50	32.2 ± 0.2	28	434
800 x 800	11.2 - 11.5	2	13.77	33.6 ± 0.2	20	275.4

Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Characteristics		Test Method	International Standard	Bangladesh Standard	Our Value
	Deviation in Length & Width	ISO 10545 (Part 2)	Max. ± 0.6%	Max. ± 0.6%	Max. ± 0.2%
	Deviation in Thickness		Max. ± 5.0%	Max. ± 5.0%	Max. ± 4.0%
	Straightness of sides		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	Rectangularity		Max. ± 0.6%	Max. ± 0.5%	Max. ± 0.2%
	Surface Flatness		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	a. Centre curvature (max.)		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	b. Edge curvature (max.)		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	c. Diagonal warpage (max.)		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	Surface Quality		Min. 95% free from visible defects	Min. 95% free from visible defects	Min. 95% free from visible defects
	Water Absorption		ISO 10545 (Part 3)	E, 0.5% ≤ Individual max. 0.6%	E, 0.5% ≤ Individual max. 0.6%
	Modulus of Rupture in N/mm <sup>2</sup>	ISO 10545 (Part 4)	Avg. 35, Individual min. 32	Avg. 35, N/mm <sup>2</sup> Individual min. 32	Avg. 38, N/mm <sup>2</sup>
	Breaking Strength in N ≥ 7.5 thickness < 7.5 thickness		Min. 1300 Min. 700	Min. 1300 Min. 700	Min. 2000 Min. 1000
	Scratch Hardness (Moh's Scale)	ISO 10545 (Part 2)/EN 101	Not Required	Not Required	Min. 5
	Resistance to Surface Abrasion (of tiles intended for use of Floors)	ISO 10545 (Part 7)	Abrasion class shall be specified by the manufacturer	Abrasion class shall be specified by the manufacturer	PEI Group IV
	Co-efficient of Linear Thermal Expansion from ambient temperature to 100 oC (K1)	ISO 10545 (Part 4)	9 x 10 <sup>-4</sup> k <sup>-1</sup> max.	9 x 10 <sup>-4</sup> k <sup>-1</sup> max.	7 x 10 <sup>-4</sup> k <sup>-1</sup> max.
	Thermal Shock Resistance	ISO 10545 (Part 9)	Min. 10 Cycles	Min. 10 Cycles	Passed
	Crazing Resistance	ISO 10545 (Part 11)	4 cycles	4 cycles	Passed
	Frost Resistance	ISO 10545 (Part 12)	No Damage	No Damage	Passed
	Impact Resistance	ISO 10545 (Part 5)	As per Mfg.	As per Mfg.	Min. 0.55
	Resistance to staining	ISO 10545 (Part 14)	Resistance	Resistance	Resistance
	Resistance to household chemicals	ISO 10545 (Part 13)	Class AA min.	Class AA min.	Class AA min.
	Chemical Resistance	ISO 10545 (Part 13)	Required, if Agreed	Required, if Agreed	Resistance to all acids and alkalies (except HF and its compound)
	Small Color Differences	ISO 10545 (Part 16)	Plain coloured tiles only where required GL : ΔE < 1.0	Plain coloured tiles only where required GL : ΔE < 75 , UGL ΔE < 1	As per Mfg.

## Technical Specifications & Packaging Details Floor Tiles

Work SizeP		ieces / BoxC	verage / BoxW	eight / Box (Approx.)	Box / PatelC	verage / Pallet
Dimensions (in mm)	Thickness (in mm)	(nos)	(sqft)	(kgs)	(nos)	(sqft)
300 x 300 (Homogeneous)	7.5 - 7.7	16	15.50	24.2 ± 0.1	42	651
300 x 300 (AS)	7.6 - 7.8	16	15.50	24.2 ± 0.1	42	651
400 x 400 (Homogeneous)	8.5 - 8.7	8	13.60	25.0 ± 0.1	56	761.6
400 x 400 (TG)	8.6 - 8.8	8	13.60	26.5 ± 0.1	56	761.6
600 x 600 (Homogeneous)	9.7 - 10.0	4	15.50	34.0 ± 0.2	28	434
260 x 300 (Stair)	7.6 - 7.8	19	15.50	25.5 ± 0.1	36	558
300 x 600 (Stair)	9.7 - 10.0	8	15.50	31.2 ± 0.1	32	496

### Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Characteristics		Test MethodI	nternational Standard	Bangladesh Standard	Our Value
	Deviation in Length & Width	ISO 10545 (Part 2)	Max. ± 0.6%	Max. ± 0.5%	Max. ± 0.3%
<small>a. The deviation in percent of the average size of each tile (2 or 4 sides) from the work size (W)</small>					
<small>b. The deviation in percent of the average size of each tile (2 or 4 sides) from the average size of the 10 test specimen (20 or 40 sides)</small>			Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.3%
	Deviation in Thickness		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.4%
	Deviation in Straightness of sides		Max. ± 0.5%	Max. ± 0.3%	Max. ± 0.2%
	Deviation in Rectangularity		Max. ± 0.6%	Max. ± 0.3%	Max. ± 0.4%
	Surface Flatness				
	a. Centre curvature (max.)		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	b. Edge curvature (max.)		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	c. Diagonal warpage (max.)		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.3%
	Surface Quality	Min. 95% free from visible defects	Min. 95% free from visible defects	Min. 95% free from visible defects	
	Water Absorption	ISO 10545 (Part 3)	< 3.0%	< 3.0%	< 0.8%
	Scratch Hardness (Moh's Scale)	ISO 10545 (Part 2)/ EN 101	Not Required	Not Required	Min. 5
	Abrasion Resistance	ISO 10545 (Part 7)	Manufacturer to state abrasion class	Manufacturer to state abrasion class	PEI 3-4
	Crazing Resistance	ISO 10545 (Part 11)	Required	Min. 4 cycles @7.5 bar min.	Resistance
	Chemical Resistance	ISO 10545 (Part 13)	Required, if Agreed	Required, if Agreed	Resistance to all acids and alkalis (except HF and its compound)
	Modulus of rupture in N/mm²	ISO 10545 (Part 4)	Avg. 32, Individual min. 30	Avg. 30, Individual min. 30	Avg. 35, Individual min. 32
	Thermal Shock Resistance	ISO 10545 (Part 9)	Required	Min. 10 Cycles	Min. 10 Cycles
	Resistance to household chemicals	ISO 10545 (Part 13)	Class AA min.	Class AA min.	Class AA min.
	Resistance to staining	ISO 10545 (Part 14)	Class 1 min.	Class 1 min.	Class 1 min.
	Visual Inspection				The Tiles are Rectangular / Square in shape. Flat and free from flaws and other manufacturing defects.

## Technical Specifications & Packaging Details Stone Shield

Work SizeP		ieces / BoxC	verage / BoxW	eight / Box (Approx.)B	ox / PatelC	verage / Pallet
Dimensions (in mm)	Thickness (in mm)	(nos)	(sqft)	(kgs)	(nos)	(sqft)
300 x 300	7.5 - 7.8	16	15.50	24.2 ± 0.1	42	651
400 x 400	10.3 - 10.5	8	13.60	30.8 ± 0.1	48	652.8
600 x 600	10.0 - 10.2	4	15.50	32.2 ± 0.2	28	434

### Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Characteristics		Test Method	International Standard	Bangladesh Standard	Our Value
	Deviation in Length & Width	ISO 10545 (Part 2)	Max. ± 0.6%	Max. ± 0.6%	Max. ± 0.20%
	Deviation in Thickness		Max. ± 5.0%	Max. ± 5.0%	Max. ± 4.0%
	Straightness of sides		Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.20%
	Rectangularity		Max. ± 0.60%	Max. ± 0.60%	Max. ± 0.20%
	Surface Flatness		Max. ± 0.50%	Max. ± 0.15%	Max. ± 0.20%
	Water Absorption			< 0.5, Max. 0.6	< 0.5, Max. 0.6
	Apparent density	DIN 51082	> 2.0 gm/cc	> 2.0 gm/cc	> 2.2 gm/cc
	Modulus of Rupture in N/mm²	ISO 10545 (Part 4)	Min. 35 N/mm²	Min. 35 N/mm²	Min. 40 N/mm²
	Breaking Strength		Min. 1300 N	Min. 1300 N	Min. 3000 N
	Impact Resistance	ISO 10545 (Part 5)	As per Mfg.	Min. 0.55	Min. 0.55
	Surface abrasion Resistance	ISO 10545 (Part 7)	As per Mfg.	As per Mfg.	PEI V+ (50000+ revolution passed)
	Moh's hardness	ISO 10545 (Part 2) / EN 101	Min. 5	Min. 5	Min. 8
	Frost Resistance	ISO 10545 (Part 12)	No Damage	No Damage	No Damage
	Thermal Shock Resistance	ISO 10545 (Part 9)	No Damage	No Damage	No Damage
	Thermal expansion (COE)	ISO 10545 (Part 8)	Max. 9.0 x 10 <sup>-6</sup>	Max. 9.0 x 10 <sup>-6</sup>	Max. 6.5 x 10 <sup>-6</sup>
	Crazing Resistance	ISO 10545 (Part 11)	4 Cycles	4 Cycles	Resistance
	Chemical Resistance	ISO 10545 (Part 13)	No Damage	No Damage	No Damage / No Damage
	Stain Resistance	ISO 10545 (Part 14)	Resistance	Resistance	Resistance / Resistance

## Technical Specifications & Packaging Details Royal Plank

Work Size	Pieces / Box	Box Weight (in Kgs)	Quantity in a Box (Sqm)
15X60	10	Approx. 19.5	0.9sqm

Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Test Description		Test Method	International Standard	Our Standard
	Deviation in Length & Width	ISO 10545-2	± 0.5%	± 0.4%
	Deviation in Thickness		± 5%	± 4%
	Straightness of sides		± 0.5%	± 0.3%
	Rectangularity		± 0.6%	± 0.4%
	Surface Flatness (Curve)		± 0.5%	± 0.3%
	Water Absorption	ISO 10545-3	< 0.5%	< 0.5%
	Modulus of Rupture	ISO 10545-4	Min. 27N/mm2	Min. 35N/mm2
	Moisture Expansion	ISO 10545-10	0.04	0.02
	Moh's Hardness	EN 101	Min. 3	Min. 5
	Thermal expansion	ISO 10545-8	9x10 <sup>-6</sup> K <sup>-1</sup> max.	8x10 <sup>-6</sup> K <sup>-1</sup> max.
	Thermal Shock Resistance	ISO 10545-9	10cycle min.	Passed
	Craze Resistance (Glazed)	ISO 10545-11	4cycle@ 7.5bar min.	Passed
	Chemical Resistance	ISO 10545-13	Min. Class AA	Min. Class AA
	Frost Resistance	ISO 10545-12	No Damage	No Damage
	Stain Resistance	ISO 10545-14	Min. Class-1	Min. Class-1

## Technical Specifications & Packaging Details Out Door Tiles

Work Size		Pieces / Box	Coverage / Box	Weight / Box (Approx.)	Box / Pallet	Coverage / Pallet
Dimensions (in mm)	Thickness (in mm)	(nos)	(sqft)	(kgs)	(nos)	(sqft)
300 x 300	9.6	10	9.68	19.25	54	522.72

Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Characteristics		Test Method	International Standard	Bangladesh Standard	Our Value
	Deviation in Length & Width	EN 98.EN ISO 10545-2	± 0.5%	Max. ± 0.5%	± 0.4%
	Deviation in Thickness		± 5%	Max. ± 0.4%	± 0.4%
	Straightness of sides		± 0.5%	Max. ± 0.5%	± 0.2%
	Rectangularity		± 0.6%	Max. ± 0.5%	± 0.4%
	Surface Flatness (%)		± 0.5%	Max. ± 0.5%	± 0.2%
	Surface Quality			Min. 95% free from visible defects	
	Water Absorption	EN 98.EN ISO 10545-3	< 0.5%	< 3.0%	< 0.5%
	Scratch Hardness (Moh's Scale)	EN 101	3	Not Required	5 above
	Breaking Strength (N)	EN 98.EN ISO 10545-4	≥ 1300N	1500 min.	≥ 1400N
	Modulus of Rupture N/mm <sup>2</sup>	EN 98.EN ISO 10545-4	27 N / mm <sup>2</sup>	Avg. 30, Individual min. 28	± 40 N / mm <sup>2</sup>
	Resistance to Surface Abrasion	EN 98.EN ISO 10545-7	Manufacturer to state abrasion class	Manufacturer to state abrasion class	N/A
	Craze Resistance	EN 98.EN ISO 10545-11	No Craze	Min. 4 cycles @7.5 bar min.	No Craze
	Chemical Resistance	EN 98.EN ISO 10545-13	No Damage	Required, if Agreed	No Damage
	Moisture Expansion	EN 98.EN ISO 10545-10	As Per Manufacturer	Nil	
	Thermal Shock	EN 98.EN ISO 10545-9	No Damage	No Damage	No Damage
	Visual Inspection				The tiles are rectangular in shape flat & free form flows & Other manufacturing Detects

## Technical Specifications & Packaging Details Wall Tiles

Work SizeP		ieces / BoxC	verage / BoxW	eight / Box (Approx.)	Box / PattelC	verage / Pallet
Dimensions (in mm)	Thickness (in mm)	(nos)	(sqft)	(kgs)	(nos)	(sqft)
200 x 300	7.2 - 7.4	25	16.00	18.9 ± 0.1	48	768
250 x 400	8.0 - 8.2	10	10.76	14.2 ± 0.1	48	516.48
300 x 450	9.0 - 9.2	08	11.3333	16.2 ± 0.1	48	543.9984
300 x 600	9.9 - 10.2	06	11.33	19.8 ± 0.1	40	453.2

Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Characteristics		Test Method	International Standard	Bangladesh Standard	Our Value
	Deviation in Length & Width	ISO 10545 (Part 2)	Max±0.5%	Max±0.5%	Max. ± 0.3%
	Deviation in Thickness	ISO 10545 (Part 2)	Max±0.5%	Max±0.4%	Max. ± 0.4%
	Surface Flatness (Warpage)	ISO 10545 (Part 2)	Max±0.5%	Max±0.4%	Max. ± 0.4%
	Rectangularity (Squareness)	ISO 10545 (Part 2)	Max±0.5%	Max±0.5%	Max. ± 0.45%
	Surface Quality	ISO 10545 (Part 2)	95% free from visible defects.	95% free from visible defects.	95% free from visible defects.
	Scratch Hardness of Surface ( Mohs)	ISO 10545 (Part 2)	Min. 3	Min. 3	Min. 3
	Water Absorption	ISO 10545 (Part 3)	>15%	>15%	15<18%
	Crazing Resistance	ISO 10545 (Part 11)	Required	Min. 4 cycles @7.5.bar	Min. 4 cycles @ 7.5 bar
	Chemical Resistance	ISO 10545 (Part 13)	No Damage	No Damage	No Damage
	Modulus of Rupture in N/mm <sup>2</sup>	ISO 10545 (Part 4)	Min. 150 kg/cm2	Min 150 kg/cm2	Min. 160 kg/cm2
	Thermal Shock Resistance	ISO 10545 (Part 9)	No Damage	No Damage	No Damage
	Visual Inspection				The Tiles are Rectangular / Square in shape, Flat and free from flaws and other manufacturing defects.

## Technical Specifications & Packaging Details ROCK X | Wall Tiles

Work Size		Pieces / Box	Coverage / Box	Weight / Box (Approx.)	Box / Pattel	Coverage / Pallet
Dimensions (in mm)	Thickness (in mm)	(nos)	(sqft)	(kgs)	(nos)	(sqft)
300 x 600	8.0 - 8.2	5	9.68	15.0 ± 0.1	56	542.08

Conformity of Our tiles to International Standards B IIIa ISO-13006:2012 and Bangladesh Standards IS-15622:2006

Characteristics		Test Method	International Standard	Bangladesh Standard	Our Value			
	Deviation in Length & Width	ISO 10545 (Part 2)						
	a. The deviation in percent of the average size of each tile (2 or 4 sides) from the work size (W)					Max. ± 0.6%	Max. ± 0.5%	Max. ± 0.3%
	b. The deviation in percent of the average size of each tile (2 or 4 sides) from the average size of the 10 test specimen (20 or 40 sides)					Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.3%
	Deviation in Thickness					Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.4%
	Deviation in Straightness of sides					Max. ± 0.5%	Max. ± 0.3%	Max. ± 0.2%
	Deviation in Rectangularity					Max. ± 0.6%	Max. ± 0.3%	Max. ± 0.4%
	Surface Flatness							
	a. Centre curvature (max.)					Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	b. Edge curvature (max.)					Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.2%
	c. diagonal warpage (max.)					Max. ± 0.5%	Max. ± 0.5%	Max. ± 0.3%
	Surface Quality		Min. 95% free from visible defects	Min. 95% free from visible defects	Min. 95% free from visible defects			
	Water Absorption	ISO 10545 (Part 3)	< 3.0%	< 3.0%	< 0.5%			
	Scratch Hardness (Moh's Scale)	ISO 10545 (Part 2)/ EN 101	Min. 5	Min. 5	Min. 6			
	Abrasion Resistance	ISO 10545 (Part 7)	Manufacturer to state abrasion class	Manufacturer to state abrasion class	PEI 4			
	Crazing Resistance	ISO 10545 (Part 11)	Min. 4 cycles @7.5 bar min.	Min. 4 cycles @7.5 bar min.	Passed			
	Chemical Resistance	ISO 10545 (Part 13)	Required, if Agreed	Required, if Agreed	Resistance to all acids and alkalis (except HF and its compound)			
	Modulus of Rupture in N/mm <sup>2</sup>	ISO 10545 (Part 4)	Avg. 32, Individual min. 30	Avg. 32, Individual min. 30	Avg. 32, Individual min. 30			
	Thermal Shock Resistance	ISO 10545 (Part 9)	Required	Min. 10 Cycles	Min. 10 Cycles			
	Resistance to household chemicals	ISO 10545 (Part 13)	Class AA min.	Class AA min.	Class AA min.			
	Resistance to staining	ISO 10545 (Part 14)	Class 1 min.	Class 1 min.	Class 1 min.			
	Visual Inspection				The Tiles are Rectangular / Square in shape, Flat and free from flaws and other manufacturing defects.			