# INCEPTED BY ITALIANS



WE ARE **ONE** | WE ARE

ceramics GROUP | ALEXANDER THE KING OF TILES

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



# FLOOR TILES

60x60

60x120



80x80

40x40

# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x120



ANP 126004



ANP 126005



ANP 126006



ANP 126007

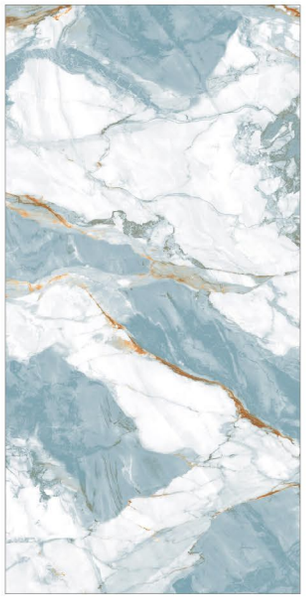






## NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x120



ANP 126008



ANP 126009



Floor | Size: 80x80



AMTVT 80803



AMTVT 80804



AMTVT 80806







## MICRO TECHNOLOGY VITRIFIED TILES | GLOSSY (POLISHED)

Floor | Size: 80x80



AMTVT 80807



AMTVT 80808



AMTVT 80809



AMTVT 80810



# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



AGVT 1100



AGVT 1200



AGVT 1211



AGVT 1218



AGVT 1220



AGVT 1222



AGVT 1223



AGVT 1226



AGVT 1230





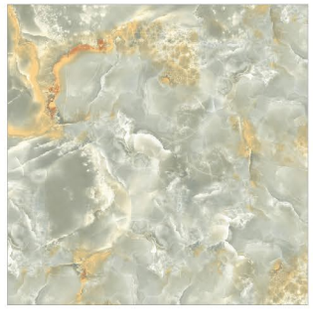


# NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



AGVT 1231



AGVT 1235



AGVT 1236



AGVT 1237



AGVT 1238



AGVT 1243



AGVT 1246



AGVT 1247







## NANO MIRROR POLISHED TILES | GLOSSY

Floor | Size: 60x60



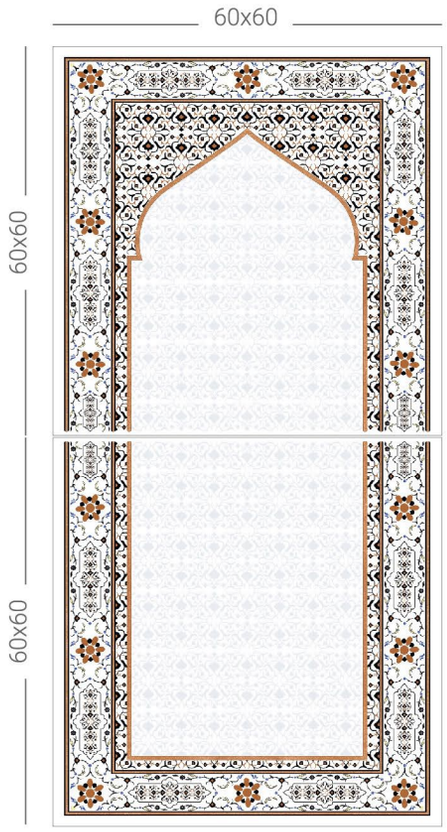
AGVT 1250



AGVT 1251



Floor | Size: 60x60



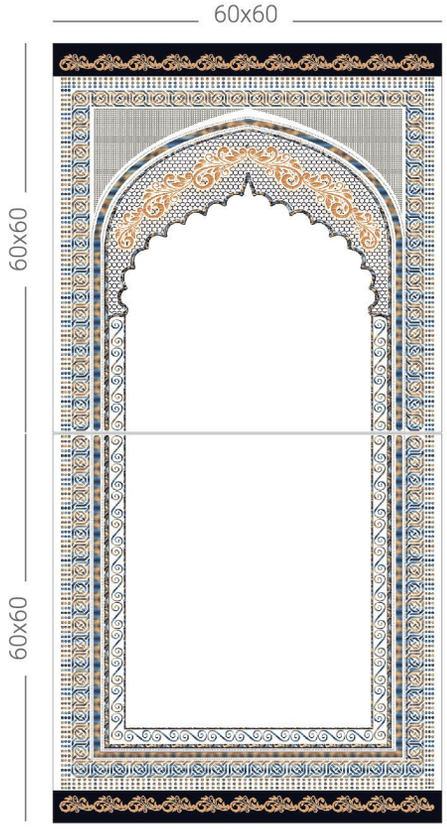

AGVT 1280 (JAYNAMAZ)







Floor | Size: 60x60



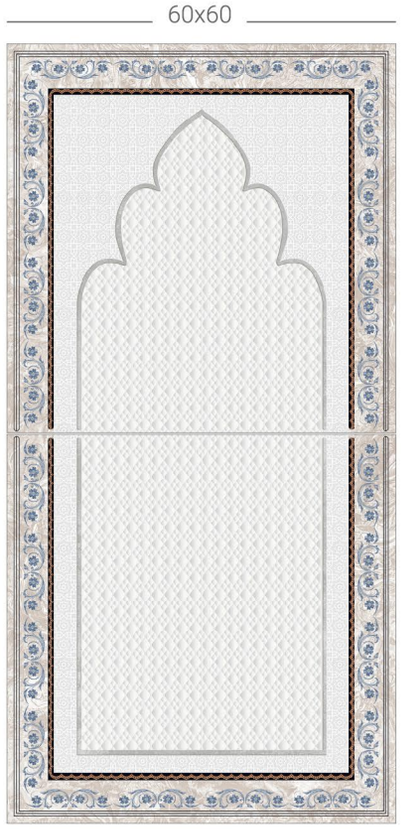

AGVT 1299 (JAYNAMAZ)





# GERMI PROOF TILES

Floor | Size: 60x60




AGPJ 8000/1

## ANTIMICROBIAL TECHNOLOGY JAYNAMAZ | MATT



# GERMI PROOF SOLODO | GLOSSY

Floor | Size: 60x60

ARGNP 660001 MA

ARGNP 660002 PK

ARGNP 660003 SB

ARGNP 660004 PR



# ROBUSTO
## SLIP SHIELD | MATT

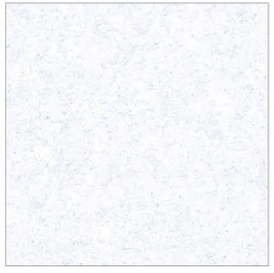
Floor | Size: 40x40



ARSS-4001



ARSS-4002



ARSS-4003



ARSS-4004



ARSS-4005



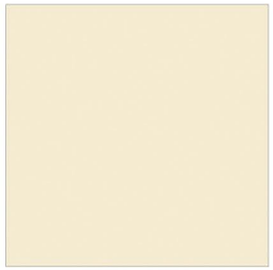
ARSS-4006





# ROBUSTO
## HOMOGENEOUS

Floor | Size: 40x40



ARH 40400



ARH 40401



ARH 40402



ARH 40403



## ROYAL PLANK | MATT
Floor | Size: 60x60


ARS 66650


ARS 66651


ARS 66652


ARS 66653


ARS 66654

## ROYAL PLANK | MATT
Floor | Size: 15x60


ARS 15650


ARS 15651


ARS 15652


ARS 15653


ARS 15654



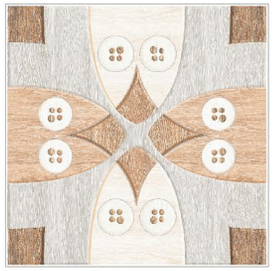


## TRANSPARENT GLAZE | GLOSSY

Floor | Size: 40x40



ATG 451



ATG 452



ATG 455



ATG 459



ATG 466



ATG 468



ATG 469



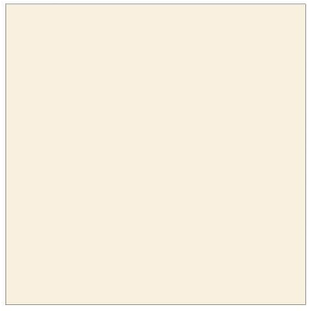
## HOMOGENEOUS
Floor & Stair | Size: 40x40


AH 400 (OFF WHITE)


AH 401 (PINK)


AH 402 (GREEN)

Size: 60x60


AH 800 (OFF WHITE)

Size: 30x60


AHSTP 830 (OFF WHITE)


AHSTP 3060

## HOMOGENEOUS
Floor & Stair | Size: 30x30


AH 200 (OFF WHITE)

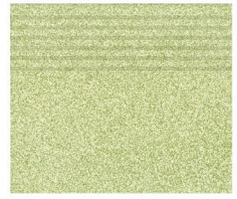

AH 201 (PINK)


AH 202 (GREEN)

## HOMOGENEOUS
Floor & Stair | Size: 26x30


AHSTP 200
(OFF WHITE)


AHSTP 201
(PINK)


AHSTP 202
(GREEN)

## STONE SHIELD | MATT

Floor | Size: 60x60



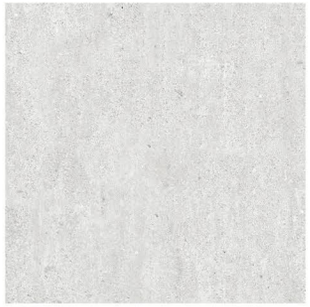
AST 811



AST 812 L



AST 812 HL



AST 814 GY



AST 815



AST 816



# STONE SHIELD | MATT

Floor | Size: 60x120



AST 61201



AST 61202



AST 61203



AST 61204





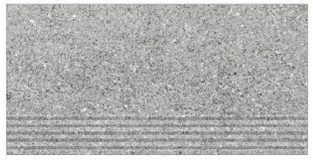


## STONE SHIELD | MATT
Stair| Size: 30x60


ASTP 831


ASTP 852


ASTP 853


ASTP 854


ASTP 855


ASTP 856


ASTP 857


ASTP 858

## RISER | MATT
Size: 30x60


ASTR 3060831


ASTR 3060852


ASTR 3060853


ASTR 3060854


ASTR 3060855


ASTR 3060856

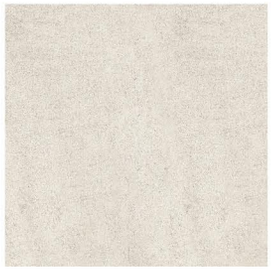

ASTR 3060857


ASTR 3060858



# STONE SHIELD | MATT

Floor | Size: 40x40



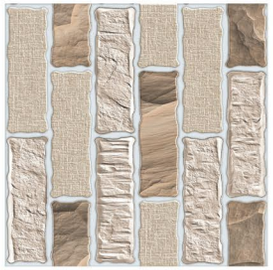
AST 405



AST 406



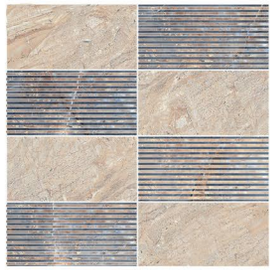
AST 407



AST 408



AST 409



AST 410



AST 411



AST 430







## ANTI SLIP | MATT

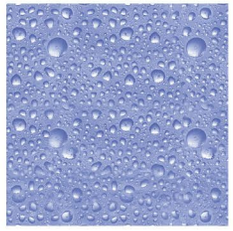
Floor | Size: 30x30


AHDF (AS) 217


AHDF (AS) 219 L


AHDF (AS) 220 D


AHDF (AS) 221


AHDF (AS) 226 D

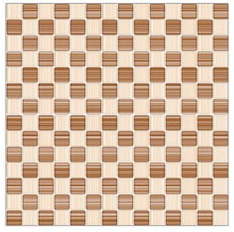

AHDF (AS) 228 D


AHDF (AS) 230


AHDF (AS) 270


AHDF (AS) 363


AHDF (AS) 364


AHDF (AS) 365


AHDF (AS) 371


AHDF (AS) 372


AHDF (AS) 373


AHDF (AS) 3003

ANTI SLIP | MATT



## OUTDOOR | MATT

Floor | Size: 30x30


AOD 3101


AOD 3102


AOD 3103

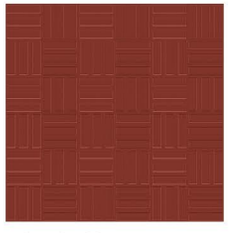

AOD 3105


AOD 3106

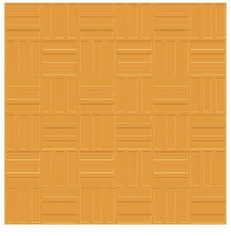

AOD 3120


AOD 3121


AOD 3122


AOD 3130 R


AOD 3131 BK

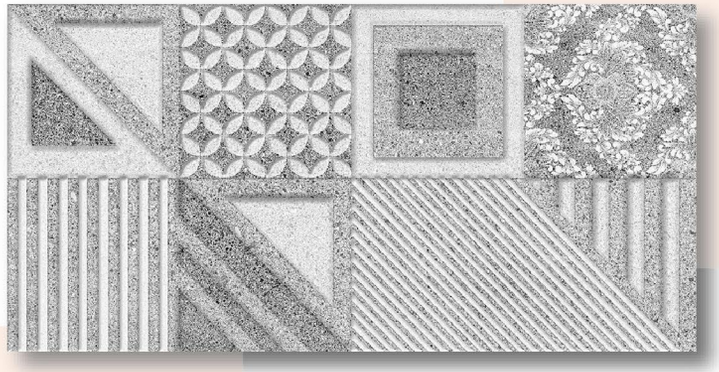

AOD 3132 Y





# WALL TILES

30x60



30x60

30x60

## WALL & FLOOR MATCHING TILES | GLOSSY WALL

Size: 30x60



AHDW 708 L



AHDW 709 L



AHDW 708 HL



AHDW 709 HL



AHDW 708 D



AHDW 709 D



AHDW 707 BR





## PRIMA SERIES 3D

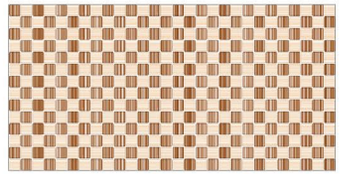
Glossy Wall: Size: 30x60 | Floor: 30x30



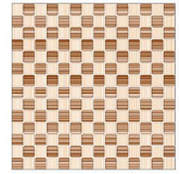
ARPW 7001 L



ARPW 7001 HL



ARPW 7001 D



AHDF (AS) 365

# WALL & FLOOR MATCHING TILES | GLOSSY WALL

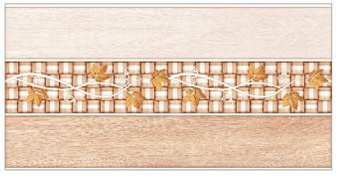
Glossy Wall: Size: 30x60 | Floor: 30x30



ARPW 7003 L



ARPW 7004 L



ARPW 7003 HL



ARPW 7004 HL



ARPW 7003 HL 2



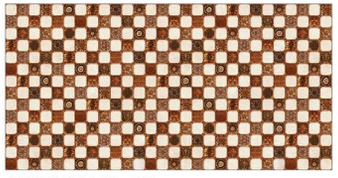
AHDF (AS) 364



ARPW 7003 D



AHDF (AS) 363



ARPW 7008 BR







# PRIMA SERIES 3D

Glossy Wall: Size: 30x60



ARPW 7010 L



ARPW 7011 L



ARPW 7010 HL



ARPW 7011 HL



ARPW 7010 D



ARPW 7011 D



ARPW 7012 L



ARPW 7020 L



ARPW 7012 HL

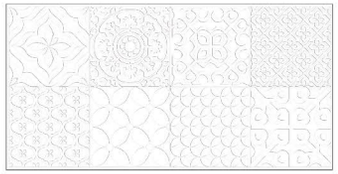


ARPW 7020 HL





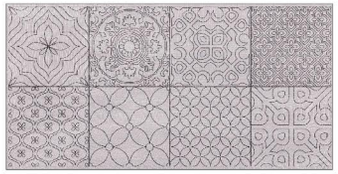



AWRS 630001

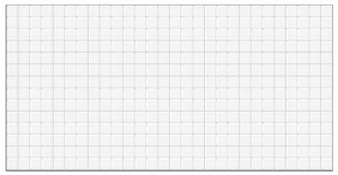

AWRS 630002

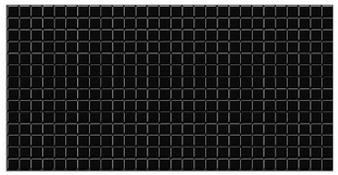

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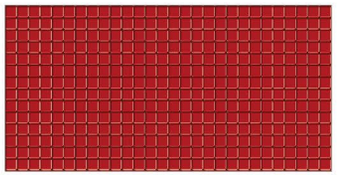

AWRS 630004

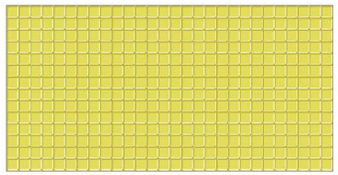

AWRS 630005

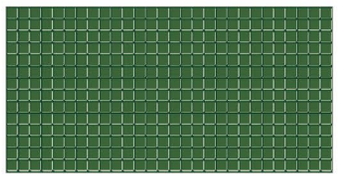

AWRS 630006


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

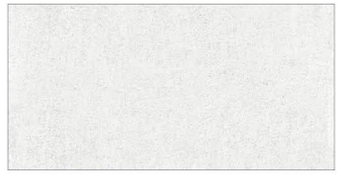


# ROCK X | WALL & FLOOR MATCHING TILES

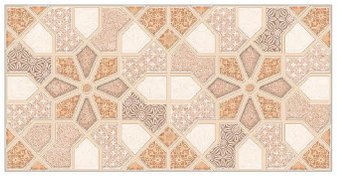
Matt Wall: Size: 30x60 | Floor: 30x30



ARS 30602 L



ARS 30604 L



ARS 30602 HL



ARS 30604 HL



AST 3011



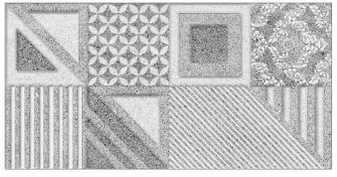
AST 3013



ARS 30603 L



ASM 300605



ARS 30603 HL



ARS 30603 HL



AST 3012







# SATIN MATT

Matt Wall: Size: 30x60



ASM 300601 L



ASM 300602 L



ASM 300601 HL



ASM 300602 HL



ASM 300601 D



ASM 300602 D



ASM 300603 L



ASM 300603 HL

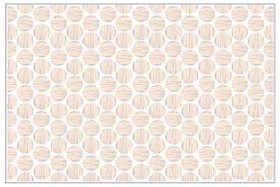






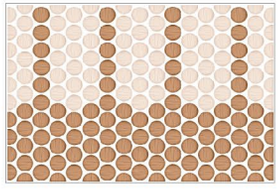
# WALL & FLOOR MATCHING TILES

Glossy | Wall | Size: 30x45 | Floor: 30x30


AHDW 503 L (BE)

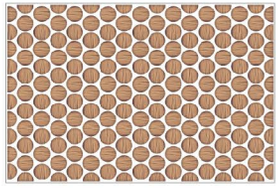

AHDW 508 L


AHDW 511 L


AHDW 503 HL (BE)


AHDW 507 HL


AHDW 511 HL


AHDW 503 D (BE)


AHDW 509 D


AHDW 511 HL2

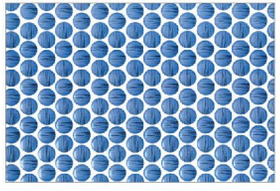

AHDF (AS) 216


AHDF (AS) 217


AHDW 511 D


AHDF (AS) 219 L


AHDF (AS) 220 D


AHDW 503 BL



WALL & FLOOR MATCHING TILES

Glossy | Wall | Size: 30x45 | Floor: 30x30


AHDW 512 L


AHDW 520 L


AHDW 525 L


AHDW 512 DL


AHDW 520 HL

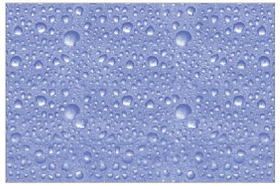

AHDW 525 HL2


AHDW 512 D


AHDW 520 HL2


AHDW 525 D


AHDF (AS) 228 D

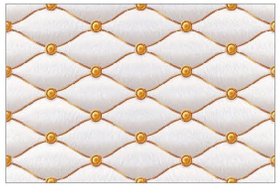

AHDW 520 D


AHDF (AS) 230


AHDF (AS) 226 D

# WALL & FLOOR MATCHING TILES

Glossy | Wall | Size: 30x45 | Floor: 30x30



AHDW 530 L



AHDW 535 L



AHDW 536 L



AHDW 530 HL



AHDW 535 HL



AHDW 536 HL 1



AHDF (AS) 270



AHDW 535 D



AHDW 536 HL 2



AHDW 536 D



WALL & FLOOR MATCHING TILES

Glossy | Wall | Size: 30x45 | Floor: 30x30





AHDW 537 L



AHDW 537 HL



AHDW 537 HL 1



AHDW 537 D



WALL & FLOOR MATCHING TILES
Glossy | Wall | Size: 30x45



## WALL TILES | GLOSSY

Wall | Size: 30x45



AHDW 526



AHDW 526 BR



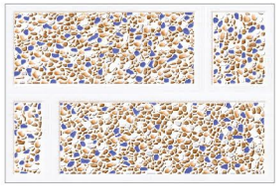
AHDW 531

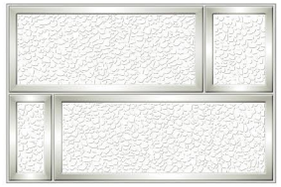


## STONE PUNCH | GLOSSY

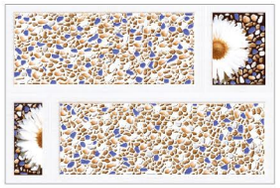
Wall | Size: 30x45


AHDW 550 L


AHDW 551 L

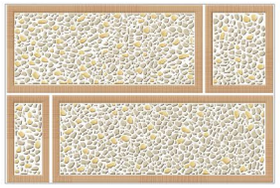

AHDW 554 L

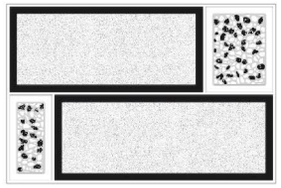

AHDW 550 HL

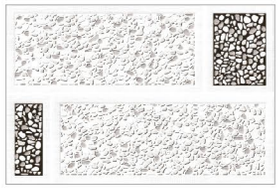

AHDW 551 HL


AHDW 554 HL


AHDW 552 L

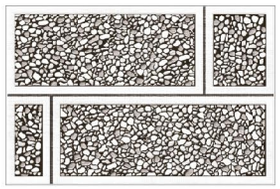

AHDW 553 L


AHDW 555 L


AHDW 552 HL


AHDW 553 HL


AHDW 555 HL


AHDW 552 D



## WALL TILES | GLOSSY

Size: 25x40


AW 329 L


AW 300

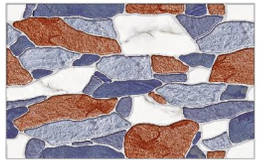

AW 320


AW 329 HL


AW 324


AW 325


AW 329 HL2


AW 328


AW 331


AW 329 D



## 3D PUNCH | GLOSSY

Wall | Size: 20x30


AW 1020 L


AW 1024 L


AW 1025 L


AW 1022 L


AW 1020 HL


AW 1024 HL1


AW 1025 HL


AW 1022 HL

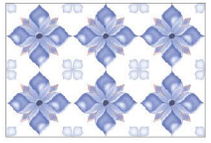

AW 1020 HL2


AW 1024 HL2


AW 1025 D


AW 1020 D


AW 1024 D


AW 1026 BL


AW 1031 L


AW 1032


AW 1029


AW 1031 HL



## 3D PUNCH | GLOSSY

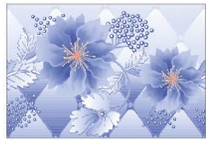
Wall | Size: 20x30


AW 1040 L


AW 1041 L


AW 1042 L

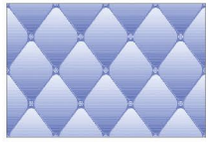

AW 1044 L


AW 1040 HL

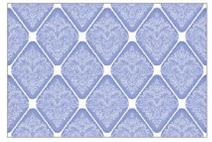

AW 1041 HL


AW 1042 HL


AW 1044 HL


AW 1040 D


AW 1041 D


AW 1042 D


AW 1044 D

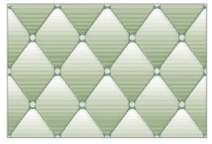

AW 1045 L


AW 1046 L


AW 1045 HL


AW 1046 HL


AW 1045 D

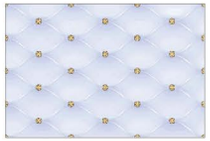

AW 1046 D



## WALL TILES | GLOSSY
Wall | Size: 20x30


AW 127 L


AW 128 L


AW 133 L


AW 143 L


AW 127 HL

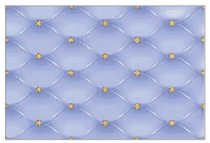

AW 128 HL


AW 133 HL


AW 143 HL3

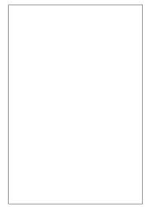

AW 127 D


AW 128 D


AW 133 D


AW 143 D

## WALL TILES | GLOSSY
Wall | Size: 20x30


AW 100

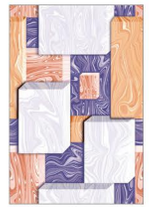

AW 118 BK


AW 118 BL

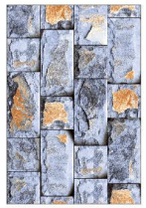

AW 118 BR


AW 121


AW 129


AW 166


AW 167


AW 168


AW 169





# ROYALSOLIDO | 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 / Pattel | 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% | ≤ 0.5% |
| | Modulus of Rupture in N/mm² | ISO 10545 (Part 4) | Avg. 35, Individual min. 32 | Avg. 35, N/mm² Individual min. 32 | Avg. 38, N/mm² |
| | Breaking Strength in N<br>≥ 7.5 thickness<br>< 7.5 thickness | | Min. 1300<br>Min. 700 | Min. 1300<br>Min. 700 | Min. 2000<br>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 $10^{4}$ $k^{1}$ max. | 9 x $10^{4}$ $k^{1}$ max. | 7 x $10^{4}$ $k^{1}$ 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 : Æ < 1.0 | Plain coloured tiles only where required GL : Æ < 75 , UGL Æ <1 | As per Mfg. |

# Technical Specifications & Packaging Details
## Floor Tiles

| Work SizeP | | ieces / BoxC | overage / BoxW | eight / Box (Approx.) | Box / PattelC | overage / 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 Methodl | nternational Standard | Bangladesh Standard | Our Value |
|---|---|---|---|---|---|
| | Deviation in Length & Width | | | | |
| | a. The deviation in percent of the average size of each tile ( 2 or 4 sides) from the work size (W) | ISO 10545 (Part 2) | 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% | < 0.8% |
| | 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 abrassion class | Manufacturer to state abrassion 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 alkalies (except HF and its compound) |
| | Modulus of rupture in N/mm$^2$ | 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 | overage / BoxW | eight / Box (Approx.)B | ox / PattelC | overage / 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 | < 0.5% | |
| | Apparent density | DIN 51082 | > 2.0 gm/cc | > 2.0 gm/cc | > 2.2 gm/cc | |
| | Modulus of Rupture in N/mm$^2$ | ISO 10545 (Part 4) | Min. 35 N/mm$^2$ | Min. 35 N/mm$^2$ | Min. 40 N/mm$^2$ | |
| | 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$^{-6}$ | Max. 9.0 x 10$^{-6}$ | Max. 6.5 x 10$^{-6}$ | |
| | 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 | $9x10^{-6}K^{-1}$ max. | $8x10^{-6}K^{-1}$ max. |
| | Thermal Shock Resistance | ISO 10545-9 | 10cycle min. | Passed |
| | Crazing 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 / Pattel | 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 $N/mm^2$ | EN 98.EN ISO 10545-4 | 27 N / $mm^2$ | Avg. 30, Individual min. 28 | ± 40 N / $mm^2$ |
| | Resistance to Surface Abrasion | EN 98.EN ISO 10545-7 | Manufacturer to state abrasion class | Manufacturer to state abrasion class | N/A |
| | Crazing Resistance | EN 98.EN ISO 10545-11 | No Crazing | Min. 4 cycles @7.5 bar min. | No Crazing |
| | 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 flate & free form flows & Other manufacturing Detects |

# Technical Specifications & Packaging Details
## Wall Tiles

| Work SizeP | | ieces / BoxC | overage / BoxW | eight / Box (Approx.) | Box / PattelC | overage / 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 @75.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$^2$ | 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 flows 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 | | | | |
| | a. The deviation in percent of the average size of each tile (2 or 4 sides) from the work size (W) | ISO 10545 (Part 2) | 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 abrassion class | Manufacturer to state abrassion 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 alkalies (except HF and its compound) |
| | Modulus of Rupture in N/mm$^2$ | 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. |

# Technical Specifications & Packaging Details

## Robusto

| Work Size | | Pieces / Box | Coverage / Box | Weight / Box (Approx.) | Box / Pattel | Coverage / Pallet |
|---|---|---|---|---|---|---|
| Dimensions (in mm) | Thickness (in mm) | (nos) | (sqft) | (kgs) | (nos) | (sqft) |
| 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 (WT.%) | | < 0.5, Max. 0.6 | < 0.5, Max. 0.6 | AVG.0.05 ± 0.01 | |
|  | Apparent density | DIN 51082 | > 2.0 gm/cc | > 2.0 gm/cc | > 2.2 gm/cc | |
|  | Modulus of Rupture in Mpa | ISO 10545 (Part 4) | Min. 35 N/mm$^2$ | Min. 35 N/mm$^2$ | AVG 41.93 ± 4.32 | |
|  | 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 $10^{-6}$ | Max. 9.0 x $10^{-6}$ | Max. 6.5 x $10^{-6}$ | |
|  | 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 |

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BDS ISO 13006:2006

ISO 9001:2015