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PT INCOMINDO MURNI JAYA

2022  
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**PORCELLANATO**  
a different lifestyle

**NATURO**  
Your nature, Your choice

**DIGITAL print**  
true color, colorful space



IKAD WALL TILE // IKAD FLOOR TILE // PORCELLANATO

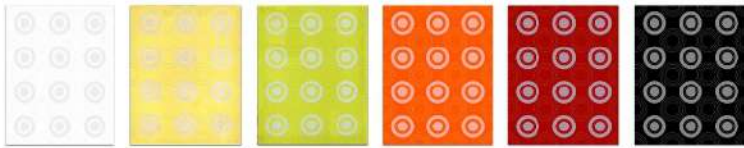


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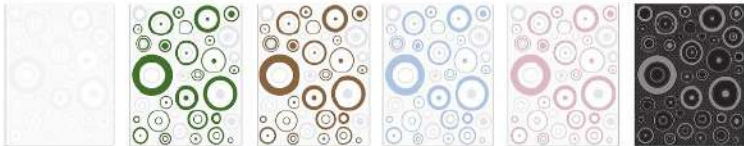




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 SNI ISO 13006 : 2010 • MS ISO 13003 : 2014 • SNI ISO 9001 : 2015  
**Wall Tile**  
 DL 20x25 cm



DL 2173 P2 20x25 cm DL 3273 P2 20x25 cm DL 3373 P2 20x25 cm DL 5573 P2 20x25 cm DL 5873 P2 20x25 cm DL 3773 P2 20x25 cm



DL 21271 P3 20x25 cm DL 23271 P3 20x25 cm DL 25271 P3 20x25 cm DL 26271 P3 20x25 cm DL 28271 P3 20x25 cm DL 37271 P3 20x25 cm



DL 1449 P1 20x25 cm DL 1549 P1 20x25 cm DL 23616 P1 20x25 cm DL 25616 P1 20x25 cm DL 26616 P1 20x25 cm DL 28616 P1 20x25 cm



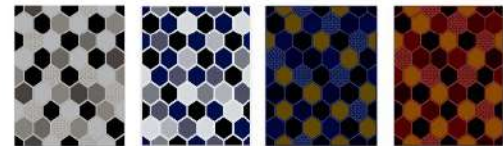
DL 37616 P1 20x25 cm DL 43616 P1 20x25 cm DL 46616 P1 20x25 cm DL 48616 P1 20x25 cm DL 6203 P2 20x25 cm DL 6101 20x25 cm



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**Wall Tile**  
 DL 20x25 cm



DL 23262 P3 20x25 cm DL 26262 P3 20x25 cm DL 27262 P3 20x25 cm DL 28262 P3 20x25 cm DL 37262 P3 20x25 cm DL 43262 P3 20x25 cm



DL 37267 P3 20x25 cm DL 46267 P3 20x25 cm DL 46262 P3 20x25 cm DL 48262 P3 20x25 cm



DL 2319 M2 20x25 cm DL 2519 M2 20x25 cm DL 2619 M2 20x25 cm DL 2819 M2 20x25 cm



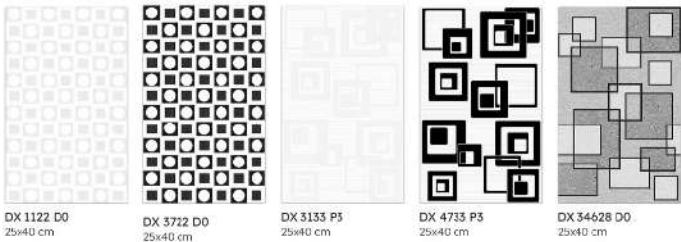
DL 4319 M2 20x25 cm DL 4619 M2 20x25 cm DL 5719 M2 20x25 cm DL 4819 M2 20x25 cm





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**Wall Tile**  
DX 25x40 cm

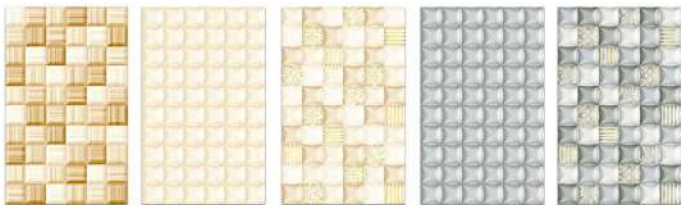
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**Wall Tile**  
DX 25x40 cm



DX 1122 D0 25x40 cm  
DX 3722 D0 25x40 cm  
DX 3133 P3 25x40 cm  
DX 4733 P3 25x40 cm  
DX 34628 D0 25x40 cm



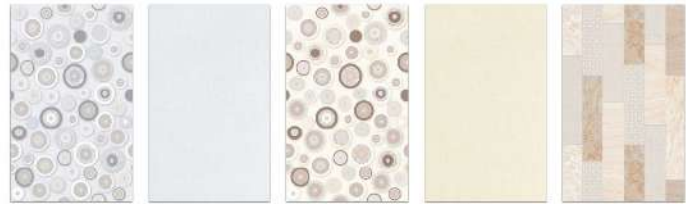
DX 31192 D0 25x40 cm  
DX 37192 D0 25x40 cm  
DX 45627 D0 25x40 cm  
DX 2477A DN 25x40 cm  
DX 2577A DN 25x40 cm



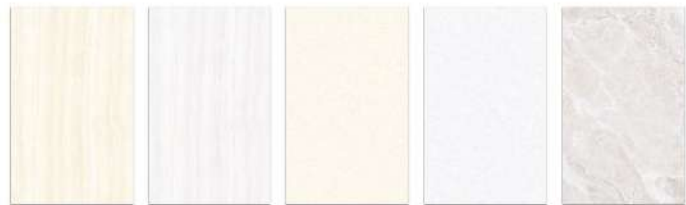
DX 2277A DN 25x40 cm  
DX 22810 DN 25x40 cm  
DX 3281A DN 25x40 cm  
DX 24810 DN 25x40 cm  
DX 3481A DN 25x40 cm



DX 71620 DM 25x40 cm  
DX 77610 DM 25x40 cm  
DX 7462A DM 25x40 cm  
DX 7662A DM 25x40 cm  
DX 7562A DM 25x40 cm



DX 84205 DL 25x40 cm  
DX 14181 D0 25x40 cm  
DX 85205 DL 25x40 cm  
DX 12181 D0 25x40 cm  
DX 25615 D0 25x40 cm



DX 12661 D0 25x40 cm  
DX 14661 D0 25x40 cm  
DX 12662 D0 25x40 cm  
DX 14662 D0 25x40 cm  
DX 14199 D5 25x40 cm



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**Wall Tile**  
 DX 25x40 cm



DX 21616 D0 25x40 cm  
 DX 56616 D0 25x40 cm  
 DX 58616 D0 25x40 cm  
 DX 47616 D0 25x40 cm  
 DX 43563 25x40 cm



DX 14191 D3 25x40 cm  
 DX RUBY BGE 25x40 cm  
 DX RUBY GRY 25x40 cm  
 DX ROYAL GRAY 25x40 cm  
 DX 2229 D3 25x40 cm



DX 2529 D3 25x40 cm  
 DX 2229 D5 25x40 cm  
 DX 2226 F2 25x40 cm  
 DX 3226 F2 25x40 cm  
 DX 22595 D0 25x40 cm



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**Wall Tile**  
 DX 25x40 cm



DX 1281 D0 25x40 cm  
 DX 1282 D0 25x40 cm  
 DX 45595 D0 25x40 cm  
 DX 3522A D0 25x40 cm  
 DX 15220 D0 25x40 cm



DX 3482A DW 25x40 cm  
 DX 34820 DW 25x40 cm  
 DX 22820 DW 25x40 cm  
 DX 3282A DW 25x40 cm  
 DX 32820 DW 25x40 cm



DX 24820 DW 25x40 cm  
 DX 7269A D0 25x40 cm  
 DX 62690 D0 25x40 cm  
 DX 7469A D0 25x40 cm  
 DX 64690 D0 25x40 cm



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Wall Tile  
 DX 25x40 cm



DX 61850 DO 25x40 cm  
 DX 7285A DO 25x40 cm  
 DX 7385A DO 25x40 cm  
 DX 7985A DO 25x40 cm



DX 5239A DO 25x40 cm  
 DX 22390 DO 25x40 cm  
 DX 3639A DO 25x40 cm  
 DX 26390 DO 25x40 cm



DX 3839A DO 25x40 cm  
 DX 28390 DO 25x40 cm  
 DX 3939A DO 25x40 cm  
 DX 29390 DO 25x40 cm



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Wall Tile  
 DX 25x40 cm



DX 21680 DO 25x40 cm  
 DX 3268A DO 25x40 cm  
 DX 3868A DO 25x40 cm  
 DX 3968A DO 25x40 cm



DX 62830 DO 25x40 cm  
 DX 7283A DO 25x40 cm  
 DX 66830 DO 25x40 cm  
 DX 7683A DO 25x40 cm



DX 68830 DO 25x40 cm  
 DX 7883A DO 25x40 cm



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**Wall Tile**  
 DZ 25x50 cm



DZ 61470 D4 25x50 cm  
 DZ 62453 D5 25x50 cm  
 DZ 64480 D4 25x50 cm  
 DZ 7447A D0 25x50 cm  
 DZ 7448A D0 25x50 cm



DZ 22471 D0 25x50 cm  
 DZ 24471 D0 25x50 cm  
 DZ 65472 D0 25x50 cm



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**Wall Tile**  
 DT 30x60 cm



DT 71780 D0 30x60 cm  
 DT 7178A D0 30x60 cm  
 DT 7178B D0 30x60 cm  
 DT 61110 D0 30x60 cm  
 DT 6111AD0 30x60 cm



DT 71022 DA 30x60 cm  
 DT 76032 DA 30x60 cm  
 DT MOROCO 30x60 cm  
 DT 6408A D0 30x60 cm  
 DT 62080 D0 30x60 cm



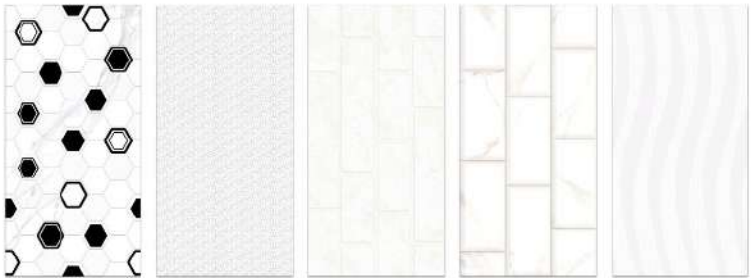


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Wall Tile  
 DT 30X60 cm



DT 65160 DH 30x60 cm  
 DT 6516A DH 30x60 cm  
 DT 75132 DK 30x60 cm  
 DT 74133 DN 30x60 cm  
 DT 72117 DE 30x60 cm



DT 77175 DW 30x60 cm  
 DT 61100 D0 30x60 cm  
 DT 61171 DR 30x60 cm  
 DT 61172 DS 30x60 cm  
 DT 71173 DB 30x60 cm



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Wall Tile  
 DT 30X60 cm



DT 35087 D3 30x60 cm  
 DT 6576A D0 30x60 cm  
 DT 65760 D0 30x60 cm  
 DT 75171 DR 30x60 cm  
 DT 85592 DI 30x60 cm



DT 72068 D3 30x60 cm  
 DT 75125 D0 30x60 cm  
 DT 6218 D3 30x60 cm  
 DT 7416 D3 30x60 cm





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**Wall Tile**  
DT 30x60 cm



DT 7521 D3 30x60 cm  
DT 6222 D3 30x60 cm  
DT 7517 D3 30x60 cm  
DT 72061 D3 30x60 cm



DT 7425 D3 30x60 cm  
DT 9419 D3 30x60 cm  
DT 74018 D5 30x60 cm  
DT 7520 D3 30x60 cm



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**Wall Tile**  
DT 30x60 cm



DT 65125 D0 30x60 cm  
DT 62125 D0 30x60 cm  
DT 7480 D5 30x60 cm  
DT 61305 D4 30x60 cm



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Floor Tile  
SC 20X20 cm



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Floor Tile  
SL 25X25 cm





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**Floor Tile**  
 SL 25X25 cm



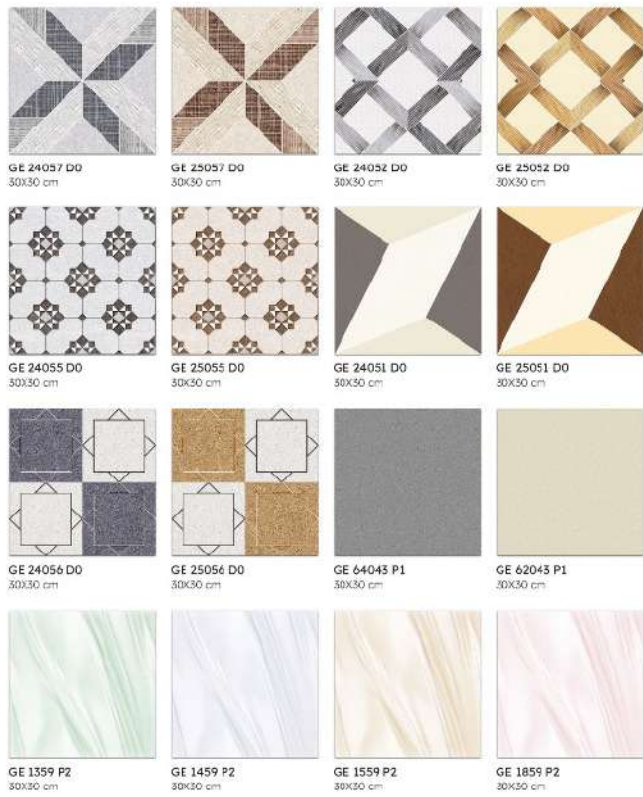
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**Floor Tile**  
 SL NATURO 25X25 cm

*SERIES*  
**NATURO**  
 Your nature, Your choice





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**Floor Tile**  
 GE 30X30 cm



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**Floor Tile**  
 GE 30X30 cm





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**Floor Tile**  
SE 30X30 cm



SE 84702 D0 30X30 cm    SE 87702 D0 30X30 cm    SE 24138 MP 30X30 cm    SE 24139 P1 30X30 cm



SE 1218 D3 30X30 cm    SE 62045 MG 30X30 cm    SE 64045 MG 30X30 cm    SE 67045 MG 30X30 cm

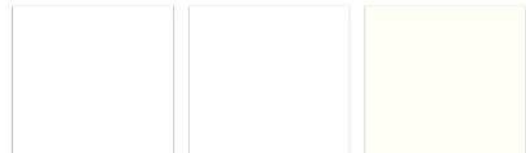


SE 74049 DK 30X30 cm    SE 75049 DK 30X30 cm    SE 74048 DJ 30X30 cm    SE 75048 DJ 30X30 cm



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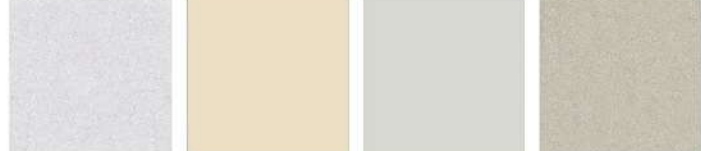
**Floor Tile**  
SX 40X40 cm



SX 6101 40X40 cm    SX 6102 40X40 cm    SX 6202 40X40 cm



SX 48008 40X40 cm    SX 3770 40X40 cm    SX 3717 P2 40X40 cm    SX 37553 P2 40X40 cm



SX 74552 D0 40X40 cm    SX SEPIA BEIGE 40X40 cm    SX SEPIA GREY 40X40 cm    SX FONTANA GRIGIO 40X40 cm



SX 72552 D0 40X40 cm    SX 82552 AC 40X40 cm    SX 77552 D0 40X40 cm    SX 87552 AC 40X40 cm



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**Floor Tile**  
SX 40x40 cm



SX DAINA BEIGE  
40x40 cm



SX DAINA GREEN  
40x40 cm



SX DAINA GREY  
40x40 cm



SX 1359 P2  
40x40 cm



SX 1459-P2  
40x40 cm



SX 1559 P2  
40x40 cm



SX 1859-P2  
40x40 cm



SX 1352 P2  
40x40 cm



SX 1552 P2  
40x40 cm



SX 1652 P2  
40x40 cm



SX 1852 P2  
40x40 cm



SX ONYX BEIGE  
40x40 cm



SX ONYX GREY  
40x40 cm



SX VERONA IVORY  
40x40 cm



SX VERONA GREY  
40x40 cm



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**Floor Tile**  
SX 40x40 cm



SX VENEZIA GREY  
40x40 cm



SX 6446 D0  
40x40 cm



SX 6246 D0  
40x40 cm



SX ALABA IVORY  
40x40 cm



SX 2540 D0  
40x40 cm



SX 7426 D0  
40x40 cm



SX TOPAZ BEIGE  
40x40 cm



SX TOPAZ GREY  
40x40 cm



SX NOVA BGE  
40x40 cm



SX NOVA GREY  
40x40 cm



SX SANTA CREAM  
40x40 cm



SX SANTA GREY  
40x40 cm



SX GALAXY BEIGE  
40x40 cm



SX GALAXY GREY  
40x40 cm





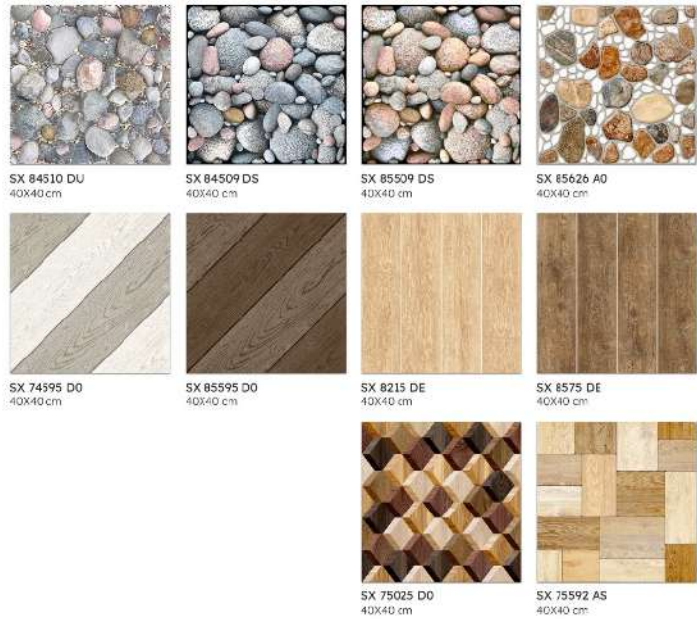
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**Floor Tile**  
Sx 40x40 cm



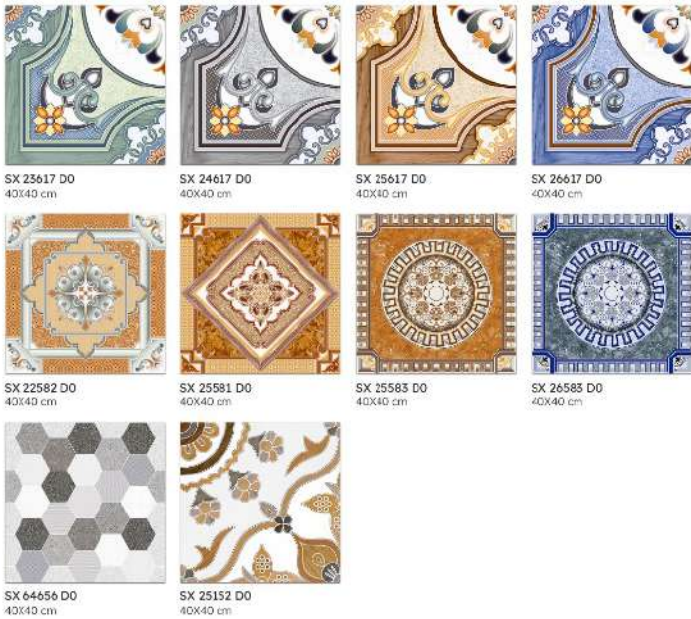
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**Floor Tile**  
Sx 40x40 cm



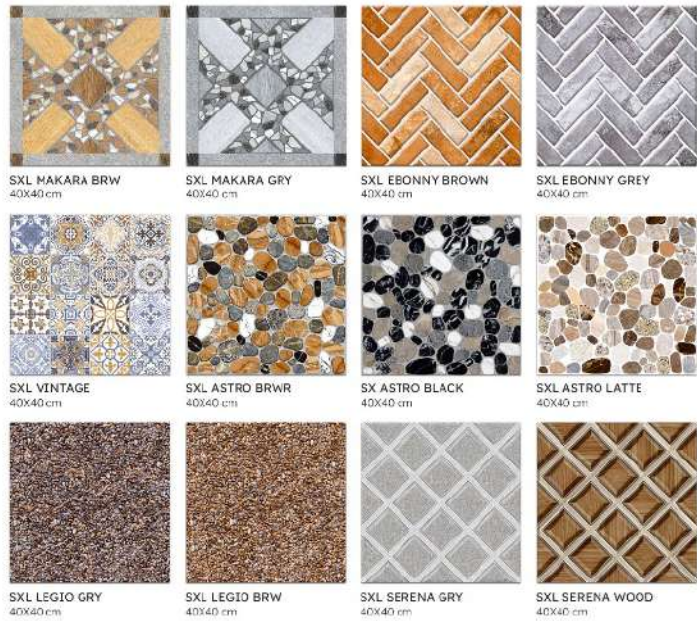


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**Floor Tile**  
 Sx 40X40 cm



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**Floor Tile**  
 SXL 40X40 cm

*SERIES*  
**NATURO**  
 Your nature, Your choice







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**Floor Tile**  
 SxL 40X40 cm



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**Floor Tile**  
 SZ 50X50 cm

*SERIES*  
**NATURO**  
 Your nature, Your choice



SXL KUTA GRYP  
 40X40 cm



SXL KUTA BRWR  
 40X40 cm



SXL MODENA GREY  
 40X40 cm



SXL MODENA DEC  
 40X40 cm



SXL KOBE SLVR  
 40X40 cm



SXL KOBE GRYP  
 40X40 cm



SXL KOBE GIOR  
 40X40 cm



SXL KOBE HANR  
 40X40 cm



SXL KYOTO SLVR  
 40X40 cm



SXL KYOTO BLKR  
 40X40 cm



SZ SIENA GREY  
 50X50 cm



SZ SIENA CREAM  
 50X50 cm



SZ SANREMO GREY  
 50X56 cm



SZ SANREMO CREAM  
 50X56 cm



SZ KRISTAL GREY  
 50X50 cm



SZ KRISTAL BEIGE  
 50X50 cm



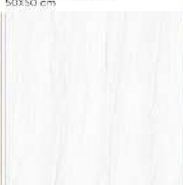
SZ TRAVERTIN GREY  
 50X56 cm



SZ TRAVERTIN BEIGE  
 50X50 cm



SZ 12578 D0  
 50X50 cm



SZ 14578 D0  
 50X50 cm



SZ 12588 D0  
 50X50 cm



SZ 14588 D0  
 50X50 cm



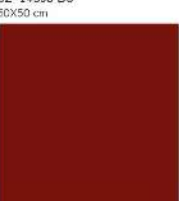
SZ 2163 D4  
 50X50 cm



SZ 14587 D0  
 50X50 cm



SZ 6101  
 50X56 cm



SZ 48008  
 50X50 cm





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**Floor Tile**  
 SZ 50X50 cm



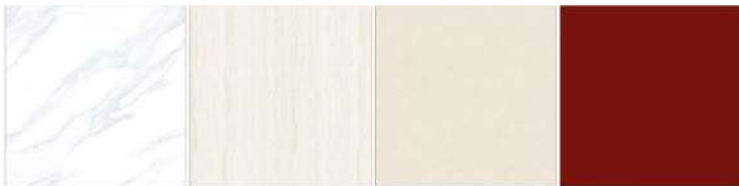
SZ 12148 D0 50X50 cm    SZ 14148 D0 50X50 cm    SZ MARBLE CREAM 50X50 cm    SZ MARBLE GREY 50X50 cm



SZ 62101 D4 50X50 cm    SZ 14143 D3 50X50 cm    SZ 5512 D4 50X50 cm    SZ 2166 D4 50X50 cm



SZ 2268 D4 50X50 cm    SZ 2242 D4 50X50 cm    SZ 7216 D0 50X50 cm    SZ 2247 D4 50X50 cm



SZ 11125 D3 50X50 cm    SZ 2545 D4 50X50 cm    SZ 72102 D0 50X50 cm    SZ 48008 50X50 cm



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**Floor Tile**  
 SZ 50X50 cm



SZ 74105 DH 50X50 cm    SZ 75105 DH 50X50 cm    SZ 74537 DK 50X50 cm    SZ 74147 DQ 50X50 cm



SZ 74536 DJ 50X50 cm    SZ 72533 D0 50X50 cm    SZ 64040 D0 50X50 cm    SZ 65040 D0 50X50 cm



SZ 74142 DP 50X50 cm    SZ 75142 DP 50X50 cm    SZ 65161 D0 50X50 cm    SZ 65160 D0 50X50 cm



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**Floor Tile**  
 SZ 50X50 cm



SZ 72095 DD 50X50 cm    SZ 75095 DD 50X50 cm    SZ 62549 DM 50X50 cm    SZ 65549 DM 50X50 cm



SZ 8281 D6 50X50 cm    SZ 8581 D6 50X50 cm    SZ 82097 D3 50X50 cm    SZ 85097 D3 50X50 cm



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**Floor Tile**  
 ST 60X60 cm



ST 61276 D6 60X60 cm    ST 62283 D0 60X60 cm    ST 64283 D0 60X60 cm



ST 62281 D5 60X60 cm    ST 64279 D4 60X60 cm



ST 74175 D6 60X60 cm    ST 75275 D6 60X60 cm



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Floor Tile

ST 60X60 cm



ST 25295 D0  
60X60 cm



ST 25296 D0  
60X60 cm



ST 74277 D4  
60X60 cm

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**Floor Tile**  
 HT 60X60 cm



HTGPL SWAN WHITE  
60X60 cm



HT SEPIA BEIGE  
60X60 cm



HT CRYSTAL BEIGE  
60X60 cm



HTGL ARGENTO  
60X60 cm



HTGPL IMOLA  
60X60 cm



HTGPL PAGANI  
60X60 cm



HTGPL LAGUNA  
60X60 cm



HTGPD ARMANI GREY  
60X60 cm



HTGPD LISBON BRW  
60X60 cm



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**Floor Tile**  
 HT 60X60 cm



HTGPL FIRENZE IVR  
60X60 cm



HTGPL FIRENZE GREY  
60X60 cm



HTGPL BELUGA IVORY  
60X60 cm



HTGPM IBIZA GREY  
60X60 cm



HTGPM ALBA GREY  
60X60 cm



HTGPM DELICA BGE  
60X60 cm



HTGPM MALAGA IVORY  
60X60 cm



HTGPM MALAGA BROWN  
60X60 cm



HTGPM VERDE BROWN  
60X60 cm



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**Floor Tile**  
 HT 60x60 cm



HTGPL DOGANA IVR  
 60x60 cm



HTGM STOFFA IVORY  
 60x60 cm



HT DTERAZZO GRY  
 60x60 cm



HTGPM VENETO GRY  
 60x60 cm



HTGM AVALON GREY  
 60x60 cm



HTGM HIKARU IVORY  
 60x60 cm



HTGM HIKARU SILVER  
 60x60 cm



HTGD HIKARU GREY  
 60x60 cm



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**Floor Tile**  
 HT 60x60 cm



HTGM LUGANO SILVER  
 60x60 cm



HTGM LUGANO GREY  
 60x60 cm



HTGD LUGANO NERO  
 60x60 cm



HTGM BOSTON GREY  
 60x60 cm



HTGD BOSTON NERO  
 60x60 cm



HTGD LUMINA NERO  
 60x60 cm



HTGPM VENEZIA GRY  
 60x60 cm



HTGM TORONTO GREY  
 60x60 cm



HTGD TORONTO NERO  
 60x60 cm



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**Floor Tile**  
HT 60x60 cm



HTGM AMALFI GREY  
60x60 cm



HTGD AMALFI BEIGE  
60x60 cm



HTGD AMALFI BROWN  
60x60 cm



HTGPL VERONICA IVR  
60x60 cm



HTGPM VERONICA BGE  
60x60 cm



HTGPD VERONICA BRW  
60x60 cm



HTGM MALAGA IVORY  
60x60 cm



HTGM MALAGA BROWN  
60x60 cm



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**Floor Tile**  
HT 60x60 cm



HTGM GRANADA GREY  
60x60 cm



HTGM GRANADA LATTE  
60x60 cm



HTGD GRANADA COFFEE  
60x60 cm



HTGD GRANADA NERO  
60x60 cm



HTGPM VALENCIA BEIGE  
60x60 cm



HTGPD VALENCIA BROWN  
60x60 cm





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 SNI ISO 13006 : 2010 • MS ISO 13006 : 2014 • SNI ISO 9001 : 2015  
**Floor/Wall Tile**  
 HY 60X120 cm



HYGPL PANAMA 60X120 cm  
 HYGPL CALACATA 60X120 cm  
 HYGPL BRECCIA 60X120 cm



HYGPL CREVOLA 60X120 cm  
 HYGPL MARINA 60X120 cm  
 HYGPL POLARIS GREY 60X120 cm



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**Floor/Wall Tile**  
 HY 60X120 cm



HYGPM TRAVERTINO BEIGE 60X120 cm  
 HYGPL AVANTE GREY 60X120 cm  
 HYGPD LAGOS BROWN 60X120 cm



HYGPL EMERALD BGE 60X120 cm  
 HYGPM EMERALD GREY 60X120 cm  
 HYGPD NAPOLI 60X120 cm



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**Floor/Wall Tile**  
HY 60X120 cm



**HYGPM LUCIDO BGE**  
60X120 cm

**HYGPD ROYAL BLUE**  
60X120 cm

**HYGPD ALPENA NERO**  
60X120 cm



**HYGPD GRIGIO NERO**  
60X120 cm

**HYGPD RAVENA NERO**  
60X120 cm

**HYGPD IMPERIAL STONE**  
60X120 cm



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**Floor/Wall Tile**  
HY 60X120 cm



**HYGPL MILANO GREY**  
60X120 cm

**HYGPL MODENA BEIGE**  
60X120 cm

**HYGPL ORLANDO**  
60X120 cm



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**Floor/Wall Tile**  
HY 60x120 cm

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SNI ISO 13006 : 2010 • MS ISO 13006 : 2014 • SNI ISO 9001 : 2015  
**Floor/Wall Tile**  
HY 60x120 cm



HYGD LUGANO GREY  
60x120 cm



HYGPM LUGANO BGE  
60x120 cm



HYGD HIKARU NERO  
60x120 cm



HYGM WILLOW LATTE  
60x120 cm



HYGD WILLOW COFFEE  
60x120 cm



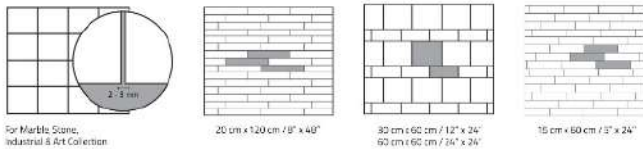
HYGD VIVERO BROWN  
60x120 cm



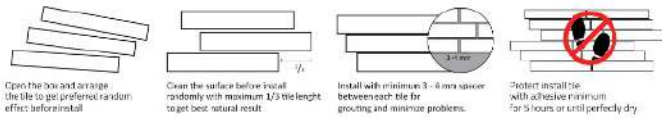
## RANDOM DESIGN



## INSTALLATION RECOMMENDATION



## WOOD TILE APPLICATION RECOMMENDATION



## TECHNICAL SPECIFICATIONS

 Water Absorption (ISO 10545-3) 0.05%	 Surface Abrasion Resistance (Glazed Tile) (ISO 10545-7) min 5 PEI-
 Dimension & Surface Quality (ISO 10545-3)	 Thermal Expansion (ISO 10545-8) 7.10 - K <sub>1</sub>
Length & Width 0.08%	 Thermal Shock Resistance (ISO 10545-9) No visible defect
Thickness 2.5%	 Deep Abrasion Resistance (Unglazed Tile) (ISO 10545-6) 145 mm
Straight of Sides 0.1%	 Chemical Resistance (ISO 10545-14) No visible defect
Rectangularity 0.1%	
Surface Flatness 0.1%	

### Attention:

For best results, you should re-read the specifications and also your Tiles installation procedures.

# GLAZED TILE SUITABILITY WHAT YOU NEED TO KNOW


<b>PEI 0</b>		Glazed tiles in this class are wall tiles only and unsuitable for use on floors.
<b>PEI 1</b>		Floor coverings for light-wear areas, using soft footwear, e.g. Domestic bathrooms and bedrooms without direct access from exterior areas
<b>PEI 2</b>		Floor coverings for light-traffic living areas where people are using soft-soled or normal footwear, excluding kitchens, entrances and other more highly trafficked areas.
<b>PEI 3</b>		Floor coverings for light-traffic living areas where people are using soft-soled or normal footwear, excluding kitchens, entrances and other more highly trafficked areas.
<b>PEI 4</b>		Floor coverings for moderate to heavy traffic. All residential applications as well as medium commercial and light institutional, e.g. Commercial kitchens, hotels, foyers and offices.
<b>PEI 5</b>		Floor coverings for heavy to extra heavy traffic for all residential and heavy commercial, industrial and institutional spaces, e.g. Stores, public walkways, schools, shops, hotel floors and airport concourses

**NB :** These classifications are valid for normal conditions. If foot traffic and abrasion is likely to be more than normal look to use a higher Pei rated tile. All floors should be adequately protected against scratching, dirt and contaminants by ensuring a structured, formalised cleaning & maintenance programme is in place appro-


# Abrasion Resistance Classification

Surface abrasion resistance classification of the glazed ceramics is determined by using P.E.I. method in accordance with Indonesian and International standards.


- PEI 1**




Ceramic tile can be used on grounds where there are no abrasive materials and where one will walk barefoot or with soft-sole shoes.
- PEI 2**




Ceramic tile can be used on grounds where there are occasionally small amount of abrasive materials and where one will walk with soft-sole or normal sole shoes.
- PEI 3**



Ceramic tile can be used on grounds where there are small amount of abrasive materials and where one will walk with normal-sole shoes.
- PEI 4**



Ceramic tile can be used on grounds where there are abrasive materials and which have a heavy pedestrian traffic.
- PEI 5**



Ceramic tile can be used on grounds where there are abundant abrasive materials and which have a heavy pedestrian traffic.

## CERAMIC ABRASION CLASSIFICATION

### LOCATION THE CERAMIC SHOULD BE USED

#### A. RESIDENCES

- |   |       |
|---|-------|
| Inside apartments                                 |       |
| a) Kitchen  | PEI 3 |
| b) Bathroom, WC                                   | PEI 2 |
| c) Entrance                                       | PEI 3 |
| d) Living room, hall, bedroom                     | PEI 3 |
| e) Balcony  | PEI 3 |
| Common areas                                      |       |
| a) Apartment building entry and landing platforms | PEI 5 |
| b) Stairways, landing platforms                   | PEI 4 |
| c) Terraces                                       | PEI 4 |
| d) Vehicle transport locations                    | PEI 5 |

#### B. WORKPLACE-BUSINESS INNS

- |                                    |       |
|------------------------------------|-------|
| Common locations                   |       |
| a) Business Inn entry and landings | PEI 5 |
| b) Stairways, landings             | PEI 5 |
| Working areas                      |       |
| a) Personal Office                 | PEI 4 |
| b) Collective office               | PEI 4 |
| c) Meeting and conference hall     | PEI 4 |

#### C. SHOPPING PLACES

- |   |       |
|---|-------|
| a) Supermarkets, hypermarkets, stores, warehouses | PEI 5 |
| b) Boutiques                                      | PEI 4 |

#### D. HOTELS AND RESTAURANTS

- |                                       |       |
|---------------------------------------|-------|
| a) Hotel reception halls              | PEI 4 |
| b) Hotel and dining halls             | PEI 4 |
| c) Hotel kitchen and additional parts | PEI 5 |
| d) Restaurants, bars, cafeterias      | PEI 4 |

#### E. SCHOOLS AND EDUCATIONAL INSTITUTIONS

- |                       |       |
|-----------------------|-------|
| a) Classrooms, stairs | PEI 5 |
| b) Laboratories       | PEI 4 |
| c) Offices            | PEI 4 |
| d) Lecture hall       | PEI 5 |
| e) Dormitories        | PEI 4 |

#### F. HOSPITALS

- |   |       |
|---|-------|
| a) Hospital interior (with constant pedestrian traffic) | PEI 5 |
| b) Emergency, Surgery rooms                             | PEI 5 |
| c) Special laboratory and departments                   | PEI 4 |

#### G. MUSEUMS, AIRPORTS AND TRAIN STATIONS

- |   |       |
|---|-------|
| a) Places with heavy pedestrian traffic such as waiting halls | PEI 5 |
|---|-------|

**NOTE:** PLEASE CONTACT THE FACTORY FOR PRODUCT-SPECIFIC ABRASION VALUES.



### TECHNICAL SPECIFICATION CERAMIC TILE

TYPE : DL (25X20) cm  
(W: 250 mm x 200 mm x 6,7 mm)  
CERAMIC WALL TILE PROSES DOUBLE FIRING

DESCRIPTION	IKAD STANDARD	SNI ISO 13006 : 2010 (gol BIII)	MS ISO 13006 : 2014	REFERENCE ISO 10545
<b>Geometrical Characteristics &amp; Surface Condition</b>				
1 Length & Width				
Category X (Over Small Size) W: 248mmX198mmX6.7mm	25cm	248.0 mm ± 0.20% (248.0 - 248.0) mm		
	20cm	198.0 mm ± 0.20% (198.0 - 198.0) mm		
Category Y (Small Size) W: 248mmX199mmX6.7mm	25cm	248.5 mm ± 0.20% (248.0 - 250.0) mm		
	20cm	199.0 mm ± 0.20% (199.0 - 200.0) mm		
Category - (Medium Size) W: 250mmX200mmX6.7mm	25cm	250.5 mm ± 0.20% (250.0 - 251.0) mm	± 0.50%	
	20cm	200.5 mm ± 0.20% (200.0 - 201.0) mm	± 0.50%	ISO 10545 - 2
Category Z (Large Size) W: 251mmX201mmX6.7mm	25cm	251.5 mm ± 0.20% (251.0 - 252.0) mm		
	20cm	201.5 mm ± 0.20% (201.0 - 202.0) mm		
Category W (Super Large Size) W: 252mmX202mmX6.7mm	25cm	252.5 mm ± 0.20% (252.0 - 253.0) mm		
	20cm	201.5 mm ± 0.20% (202.0 - 203.0) mm		
2 Thickness (Tebal)		6.7 mm ± 3% (6.5 - 6.8) mm	± 10%	ISO 10545 - 2
3 Rectangularity (Kesehuan)	P	± 0.15% (0.75) mm	± 0.50%	± 0.30%
	L			
4 Straightness of side (kelurusan tepi)	P	± 0.08% (0.4) mm	± 0.30%	± 0.30%
	L			
<b>Surface Flatness (kedataran permukaan)</b>				
a. Centre Curvature (kelengkungan diagonal)				ISO 10545 - 2
5 Convex (cembung)		+ 0.17% (1.1) mm	+ 0.50%	- 0.50%
		- 0.08% (0.5) mm	- 0.30%	- 0.30%
b. Edge Curvature (kelengkungan tepi)		+ 0.18% (0.9) mm	+ 0.50%	- 0.30%
		- 0.15% (0.4) mm	- 0.30%	- 0.30%
c. Warpage (puntiran susut)		± 0.15% (0.4) mm	± 0.50%	± 0.50%
6 Surface Condition (kondisi permukaan)		A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.	A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.	A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.
<b>Physical &amp; Chemical Properties Group B III</b>				
7 Water Absorption (porositas)		16% - 20%	Max 20%	10% - 20%
8 Breaking Strength (kuat patah)		Min 200 N	Min 200 N	Min 200 N
9 Modulus Of Rupture (kuat Lentur)		Min 12 N/mm <sup>2</sup>	Min 12 N/mm <sup>2</sup>	Min 12 N/mm <sup>2</sup>
10 Abrasion Resistance (ketahanan abrasi) glaze tile floor		Class I to III (ISO 580) Cycles	Report abrasion class and cycles passed	Report abrasion class and cycles passed
11 Thermal shock resistance (suhu kejut)		no crazing /Passed	Test method available	Required
12 Cracking Resistance (ketahanan terhadap retak)		Autoclave test 10 bar & lasts 2 hours (no crazing / passed)	Autoclave test: 5 bar & lasts 1 hour (no crazing)	Required
<b>Chemical Resistance (ketahanan terhadap bahan kimia)</b>				
a. Acid & Alkali Low Concentrations (asam/basa konsentrasi rendah "L")		Maximal class I	Manufacture to state classification	Manufacture to state classification
b. Acid & Alkali High Concentrations (asam/basa konsentrasi tinggi "H")		Maximal class I	Manufacture to state classification	Manufacture to state classification
13 c. Resistance to Staining (ketahanan terhadap noda)		Min Class 3	Manufacture to state classification	Manufacture to state classification
d. Resistance Household chemicals and swimming pool salts (ketahanan terhadap bahan rumah tangga dan garam di kolam renang)		Min Class GA	Min Class GB	Min Class GB
14 Water Mark		Maximal (WMO)		

POINT 3,4, 5\* => P= PANJANG, L= LEBAR



### TECHNICAL SPECIFICATION CERAMIC TILE

TYPE : DX (40X25) cm  
(W: 400 mm x 250 mm x 7,5 mm)  
CERAMIC WALL TILE PROSES DOUBLE FIRING

DESCRIPTION	IKAD STANDARD	SNI ISO 13006 : 2010 (gol BIII)	MS ISO 13006 : 2014	REFERENCE ISO 10545
<b>Geometrical Characteristics &amp; Surface Condition</b>				
1 Length & Width				
Category X (Over Small Size) W: 398mmX248mmX7.5mm	40cm	398.0 mm ± 0.16% (397.5 - 399.1) mm		
	25cm	248.5 mm ± 0.20% (248.0 - 249.0) mm		
Category Y (Small Size) W: 399mmX249mmX7.5mm	40cm	399.5 mm ± 0.15% (399.5 - 400.1) mm		
	25cm	249.5 mm ± 0.20% (249.0 - 250.0) mm		
Category - (Medium Size) W: 400mmX250mmX7.5mm	40cm	400.5 mm ± 0.15% (399.5 - 401.1) mm	± 0.50%	
	25cm	250.5 mm ± 0.20% (250.0 - 251.0) mm	± 0.50%	ISO 10545 - 2
Category Z (Large Size) W: 401mmX251mmX7.5mm	40cm	401.5 mm ± 0.15% (400.5 - 402.1) mm		
	25cm	251.5 mm ± 0.20% (251.0 - 252.0) mm		
Category W (Super Large Size) W: 402mmX252mmX7.5mm	40cm	402.5 mm ± 0.15% (401.5 - 403.1) mm		
	25cm	252.5 mm ± 0.20% (252.0 - 253.0) mm		
2 Thickness (tebal)		7.5 mm ± 3.00% (7.3 - 7.7) mm	± 10%	± 10%
3 Rectangularity (Kesehuan)	P	± 0.13% (1.0) mm	± 0.50%	± 0.30%
	L	± 0.15% (0.75) mm		
4 Straightness of side (kelurusan tepi)	P	± 0.08% (0.4) mm	± 0.30%	± 0.30%
	L			
<b>Surface Flatness (kedataran permukaan)</b>				
a. Centre Curvature (kelengkungan diagonal)				ISO 10545 - 2
5 Convex (cembung)		+ 0.15% (1.4) mm	- 0.50%	+ 0.50%
		- 0.08% (0.7) mm	- 0.30%	- 0.30%
b. Edge Curvature (kelengkungan tepi)		+ 3.15% (P:1.2, L:0.8) mm	- 0.50%	+ 0.50%
		- 0.06% (P:0.5, L:0.5) mm	- 0.30%	- 0.30%
c. Warpage (puntiran susut)		± 0.06% (P:0.5, L:0.5) mm	± 0.50%	± 0.50%
6 Surface Condition (kondisi permukaan)		A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.	A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.	A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.
<b>Physical &amp; Chemical Properties Group B II</b>				
7 Water Absorption (porositas)		16% - 20%	Max 20%	10% - 20%
8 Breaking Strength (kuat patah)		Min 600 N	Min 600 N	Min 600 N
9 Modulus Of Rupture (kuat Lentur)		Min 15 N/mm <sup>2</sup>	Min 15 N/mm <sup>2</sup>	Min 15 N/mm <sup>2</sup>
10 Abrasion Resistance (ketahanan abrasi) glaze tile floor		Class II to III (ISO 580) Cycles	Report abrasion class and cycles passed	Report abrasion class and cycles passed
11 Thermal shock resistance (suhu kejut)		no crazing /Passed	Test method available	Required
12 Cracking Resistance (ketahanan terhadap retak)		Autoclave test 10 bar & lasts 2 hours (no crazing / passed)	Autoclave test 5 bar & lasts 1 hour (no crazing)	Required
<b>Chemical Resistance (ketahanan terhadap bahan kimia)</b>				
a. Acid & Alkali Low Concentrations (asam/basa konsentrasi rendah "L")		Maximal class II	Manufacture to state classification	Manufacture to state classification
b. Acid & Alkali High Concentrations (asam/basa konsentrasi tinggi "H")		Maximal class II	Manufacture to state classification	Manufacture to state classification
13 c. Resistance to Staining (ketahanan terhadap noda)		Min Class 3	Manufacture to state classification	Manufacture to state classification
d. Resistance Household chemicals and swimming pool salts (ketahanan terhadap bahan rumah tangga dan garam di kolam renang)		Min Class GA	Min Class GB	Min Class GB
14 Water Mark		Maximal (WMO)		

POINT 3,4, 5\* => P= PANJANG, L= LEBAR





### TECHNICAL SPECIFICATION CERAMIC TILE

TYPE : **DZ (25X50) cm**  
(W: 250 mm x 500 mm x 9,5 mm)  
CERAMIC WALL TILE PROSES DOUBLE FIRING

DESCRIPTION	IKAD STANDARD	SNI ISO 13006 : 2010 (gol Bilik)	MS ISO 13006 : 2014	REFERENCE ISO 10545
<b>Geometrical Characteristics &amp; Surface Condition</b>				
1 Length & Width				
Category X (Over Small Size) W: 398mmX248mmX7.5mm	60cm	488.5 mm ± 0.15% (487.9 – 489.1) mm		
	25cm	248.5 mm ± 0.20% (248.0 – 249.0) mm		
Category Y (Small Size) W: 399mmX249mmX7.5mm	60cm	489.5 mm ± 0.15% (488.9 – 500.1) mm		
	25cm	249.5 mm ± 0.26% (249.0 – 250.0) mm		
Category - (Medium Size) W: 400mmX250mmX7.5mm	60cm	500.5 mm ± 0.15% (499.9 – 501.1) mm	± 0.50%	ISO 10545 – 2
	25cm	250.5 mm ± 0.26% (250.0 – 251.0) mm		
Category Z (Large Size) W: 401mmX251mmX7.5mm	60cm	501.5 mm ± 0.15% (500.9 – 502.1) mm		
	25cm	251.5 mm ± 0.26% (251.0 – 252.0) mm		
Category W (Super Large Size) W: 402mmX252mmX7.5mm	60cm	502.5 mm ± 0.15% (501.9 – 503.1) mm		
	25cm	252.5 mm ± 0.26% (252.0 – 253.0) mm		
2 Thickness (Tebal)		± 0.5 mm ± 0.05% (9.2 – 9.8) mm	± 10%	ISO 10545 – 2
3 Rectangularity (Kesehuan)	P	± 0.15% (1.0) mm	± 0.50%	ISO 10545 – 2
	L	± 0.15% (0.75) mm		
4 Straightness of side (kelurusan tepi)	P	± 0.08% (0.4) mm	± 0.30%	ISO 10545 – 2
	L			
<b>Surface Flatness (kedataran permukaan)</b>				
a. Centre Curvature (kedataran diagonal)				
Convex (cembung)	+ 0.15% (1.6) mm	+ 0.50%	+ 0.50%	ISO 10545 – 2
Concave (cekung)	- 0.08% (0.8) mm	- 0.30%	- 0.30%	
b. Edge Curvature (kedataran sisi)				
Convex (cembung)	+ 0.15% (P:1.2, L:0.8) mm	+ 0.50%	+ 0.50%	ISO 10545 – 2
Concave (cekung)	- 0.06% (P:0.5, L:0.5) mm	- 0.30%	- 0.30%	
c. Warpage (puntiran susut)				
Convex (cembung)	+ 0.06% (P:0.5, L:0.5) mm	+ 0.50%	+ 0.50%	ISO 10545 – 2
6 Surface Condition (kondisi permukaan)				
A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles				
A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles				
A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles				
<b>Physical &amp; Chemical Properties Group</b>				
7 Water Absorption (porositas)	16% – 20%	Max 20%	10% – 20%	ISO 10545 – 3
8 Breaking Strength (kuat patah)	Min 600 N	Min 600 N	Min 600 N	ISO 10545 – 4
9 Modulus Of Rupture (kuat lentur)	Min 15 N/mm <sup>2</sup>	Min 15 N/mm <sup>2</sup>	Min 15 N/mm <sup>2</sup>	ISO 10545 – 4
10 Abrasion Resistance (ketahanan abrasi) glaze tile floor	Class II to III (300-800) Cycles	Report abrasion class and cycles passed	Report abrasion class and cycles passed	ISO 10545 – 7
11 Thermal shock resistance (suhu kejut)	no crazing (Passed)	Test method available	Required	ISO 10545 – 9
12 Crazing Resistance (ketahanan retak)	Autoclave test 10 bar & lasts 2 hours (no crazing passed)	Autoclave test 5 bar & lasts 1 hours (no crazing)	Required	ISO 10545 – 11
<b>Chemical Resistance (ketahanan thd bahan kimia)</b>				
a. Acid & Alkali Low Concentrations (asam/basa konsentrasi rendah "L")	Maximal class II	Manufacture to state classification	Manufacture to state classification	ISO 10545 – 13
b. Acid & Alkali High Concentrations (asam/basa konsentrasi tinggi "H")	Maximal class II	Manufacture to state classification	Manufacture to state classification	ISO 10545 – 13
c. Resistance to Staining (ketahanan thd noda)	Min Class 3	Manufacture to state classification	Manufacture to state classification	ISO 10545 – 14
d. Resistance Household chemicals and swimming pool salts (ketahanan thd kimia rumah tangga dan garam di kolam renang)	Min Class GA	Min Class GB	Min Class GB	ISO 10545 – 14
14 Water Mark	Maximal (WMI)			

POINT 3,4, 5\* => P= PANJANG, L= LEBAR



### TECHNICAL SPECIFICATION CERAMIC TILE

TYPE : **DT (60X30) cm**  
(W: 600 mm x 300 mm x 9,5 mm)  
CERAMIC WALL TILE PROSES DOUBLE FIRING

DESCRIPTION	IKAD STANDARD	SNI ISO 13006 : 2010 (gol Bilik)	MS ISO 13006 : 2014	REFERENCE ISO 10545
<b>Geometrical Characteristics &amp; Surface Condition</b>				
1 Length & Width				
Category X (Over Small Size) W: 598mmX298mmX10.5mm	60cm	588.0 mm ± 0.15% (587.4 – 588.6) mm		
	30cm	298.5 mm ± 0.20% (298.0 – 299.0) mm		
Category Y (Small Size) W: 599mmX299mmX10.5mm	60cm	589.0 mm ± 0.15% (588.4 – 589.6) mm		
	30cm	299.5 mm ± 0.20% (299.0 – 300.0) mm		
Category - (Medium Size) W: 600mmX300mmX10.5mm	60cm	600.0 mm ± 0.15% (599.4 – 600.6) mm	± 0.50%	ISO 10545 – 2
	30cm	300.5 mm ± 0.20% (300.0 – 301.0) mm		
Category Z (Large Size) W: 601mmX301mmX10.5mm	60cm	601.0 mm ± 0.15% (600.4 – 601.6) mm		
	30cm	301.5 mm ± 0.20% (301.0 – 302.0) mm		
Category W (super Large Size) W: 602mmX302mmX10.5mm	60cm	602.0 mm ± 0.15% (601.4 – 602.6) mm		
	30cm	302.5 mm ± 0.20% (302.0 – 303.0) mm		
2 Thickness (Tebal)		± 0.5 mm ± 0.05% (10.3 – 10.7) mm	± 10%	ISO 10545 – 2
3 Rectangularity (Kesehuan)	P	± 0.08% (1.0) mm	± 0.50%	ISO 10545 – 2
	L	± 0.16% (1.0) mm		
4 Straightness of side (kelurusan tepi)	P	± 0.04% (6.5) mm	± 0.30%	ISO 10545 – 2
	L	± 0.07% (6.4) mm		
<b>Surface Flatness (kedataran permukaan)</b>				
a. Centre Curvature (kedataran diagonal)				
Convex (cembung)	+ 0.30% (2.0) mm	+ 0.50%	+ 0.50%	ISO 10545 – 2
Concave (cekung)	- 0.15% (1.0) mm	- 0.30%	- 0.30%	
b. Edge Curvature (kedataran sisi)				
Convex (cembung)	+ 0.15% (P:1.5, L:1.0) mm	+ 0.50%	+ 0.50%	ISO 10545 – 2
Concave (cekung)	- 0.07% (P:0.8, L:0.5) mm	- 0.30%	- 0.30%	
c. Warpage (puntiran susut)				
Convex (cembung)	± 0.04% (L: 0.07% (P: 0.5, L: 0.5) mm	± 0.50%	± 0.50%	ISO 10545 – 2
6 Surface Condition (kondisi permukaan)				
A minimum of 85% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles				
A minimum of 85% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles				
A minimum of 85% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles				
<b>Physical &amp; Chemical Properties Group</b>				
7 Water Absorption (porositas)	16% – 20%	Max 20%	10% – 20%	ISO 10545 – 3
8 Breaking Strength (kuat patah)	Min 600 N	Min 600 N	Min 600 N	ISO 10545 – 4
9 Modulus Of Rupture (kuat lentur)	Min 15 N/mm <sup>2</sup>	Min 15 N/mm <sup>2</sup>	Min 15 N/mm <sup>2</sup>	ISO 10545 – 4
10 Abrasion Resistance (ketahanan abrasi) glaze tile floor	Class II to III (300-800) Cycles	Report abrasion class and cycles passed	Report abrasion class and cycles passed	ISO 10545 – 7
11 Thermal shock resistance (suhu kejut)	no crazing (Passed)	Test method available	Required	ISO 10545 – 9
12 Crazing Resistance (ketahanan retak)	Autoclave test 10 bar & lasts 2 hours (no crazing passed)	Autoclave test 5 bar & lasts 1 hours (no crazing)	Required	ISO 10545 – 11
<b>Chemical Resistance (ketahanan thd bahan kimia)</b>				
a. Acid & Alkali Low Concentrations (asam/basa konsentrasi rendah "L")	Maximal class II	Manufacture to state classification	Manufacture to state classification	ISO 10545 – 13
b. Acid & Alkali High Concentrations (asam/basa konsentrasi tinggi "H")	Maximal class II	Manufacture to state classification	Manufacture to state classification	ISO 10545 – 13
c. Resistance to Staining (ketahanan thd noda)	Min Class 3	Manufacture to state classification	Manufacture to state classification	ISO 10545 – 14
d. Resistance Household chemicals and swimming pool salts (ketahanan thd kimia rumah tangga dan garam di kolam renang)	Min Class GA	Min Class GB	Min Class GB	ISO 10545 – 14
14 Water Mark	Maximal (WMI)			

POINT 3,4, 5\* => P= PANJANG, L= LEBAR