



**FUTURE
L**ERAMICS

المستقبل للسيراميك والبورسلان

OUTDOOR
FLOORS

contacts,

Factory

Saudi Arabia - Dammam 2nd

Industrial City

P O Box 2367 | Dammam

34327|7351

Tel.: +966 13 812 3624

Fax: +966 13 812 3100

crm@futureceramic.com



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OUTDOOR 20mm & 10mm

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المستقبل للسيراميك والبورسلان

Future Ceramics is one of the leading Manufactures of ceramic & porcelain tiles in the gulf , with capital of 300,000,000 SR.

Being situated in the Second Industrial City Of Dammam, Saudi Arabia, Future's factory has been built over 436,000 SQ meter area and the capacity of the plant 36,000 SQ meter/Day of ceramic and porcelian tiles.

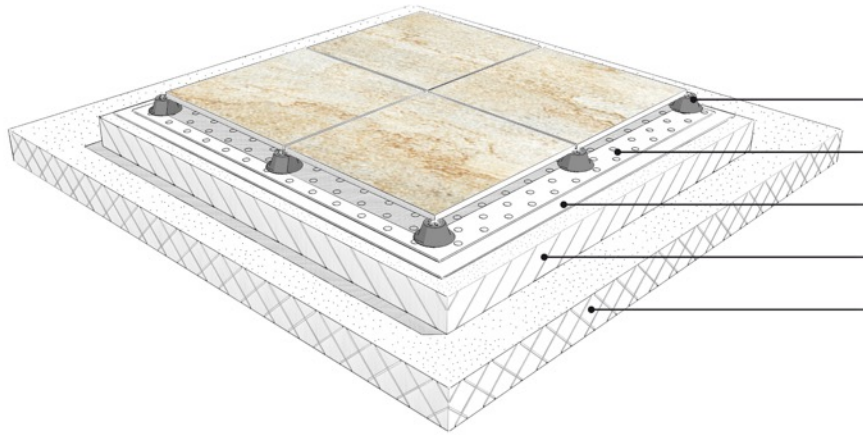
Aiming for excellence, the company avails itself of exclusively Italian technologies and ori-ents its policy toward high standards of technical and aesthetic quality, service and pro-duction innovation, to offer latest-generation products in terms of quality and design, on par with the top levels of the market.

In this moment of great development in the building market, Future Ceramics wants to itro-duce itself to architects, designers, planners and buildings companies as a dynamic, reli-able partner in the realization of new living projects.

The Factory



laying methods 20mm,



RAISED INSTALLATION ONTO SUPPORTS

SUPPORTS

DRAINING SHEATH

WATER-PROOFING SHEATH

INCLINED FOOTING

FLOOR

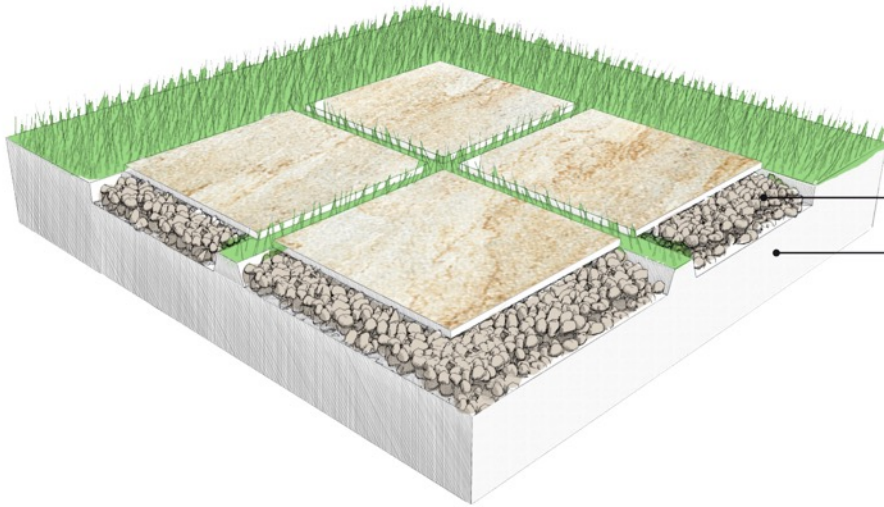


DRY-SYSTEM INSTALLATION ONTO GRAVEL

GRAVEL OF 5 CM (granulometry 4/8 mm)

SOIL

laying methods 20mm,



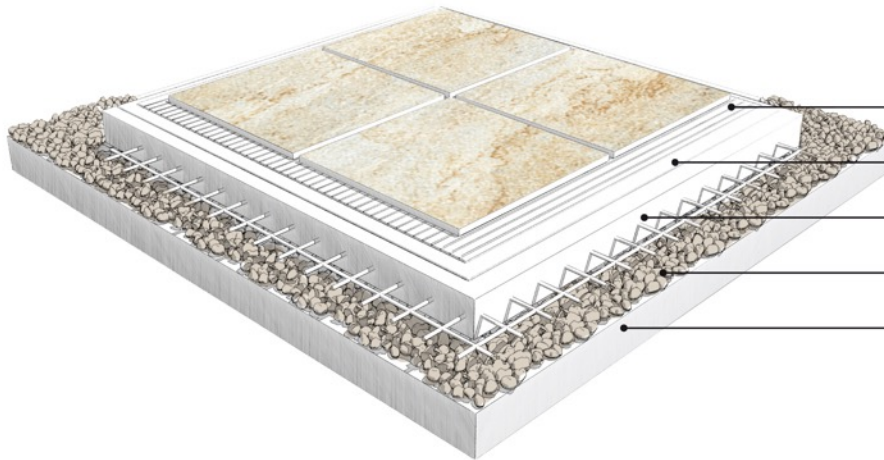
DRY-SYSTEM SPACED INSTALLATION ONTO GRASS

GRAVEL OF 5 CM (granulometry 4/8 mm)
SOIL



FLOORING
DRIVEWAYS

TRADITIONAL ADHESIVE INSTALLATION



ADHESIVE
DRAINING SHEATH
FOOTING WITH ELECTRO-WELDED NET
DRAINING LAYER
SOIL





Latemar





white



grey

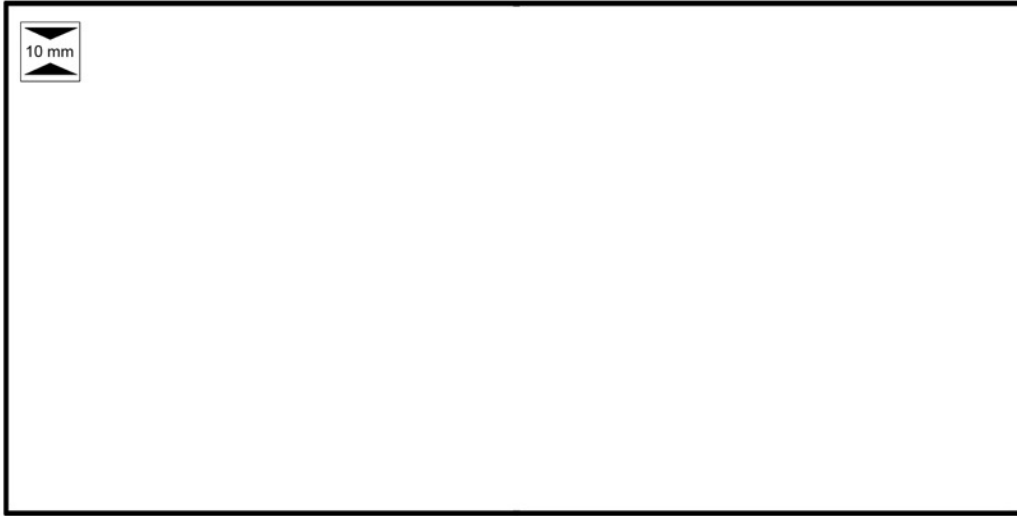


beige

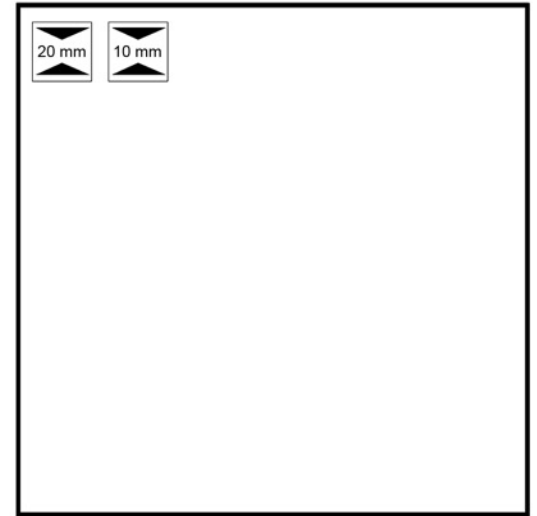


antracite





120x60 - 120x60



60x60 - 60x60

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
60x60	20	4	1,44	30	33,20	1016,00	43,20
60x60	10	4	1,44	30	33,20	1016,00	43,20



2 cm



1 cm









GEMS



pearl



diamond



opal

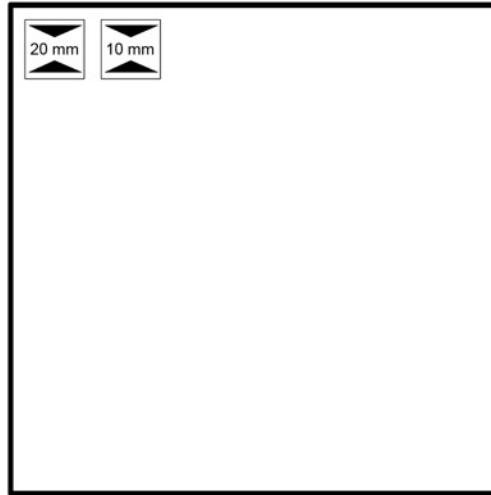


amber



obsidian





60x60 - 1.0x1.0



30x60 - 3.0x1.0

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
60x60	20	4	1,44	30	33,20	1016,00	43,20
60x60	10	4	1,44	30	33,20	1016,00	43,20
30x60	10	6	1,08	48	24,24	1183,52	51,84



2 cm



1 cm



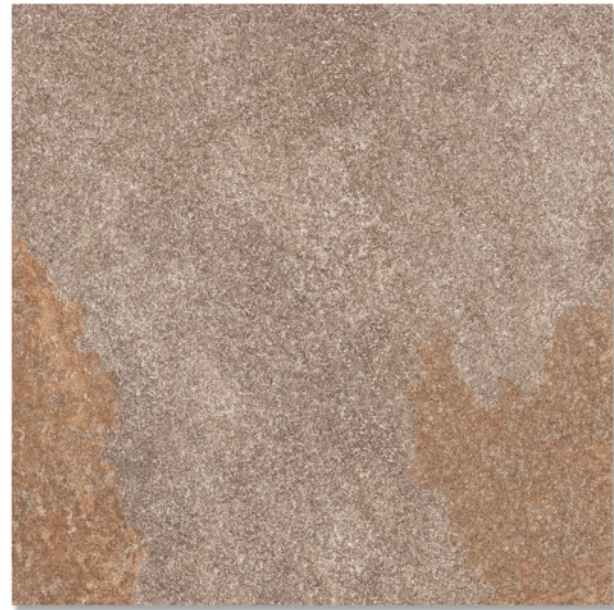




ROCK



grey

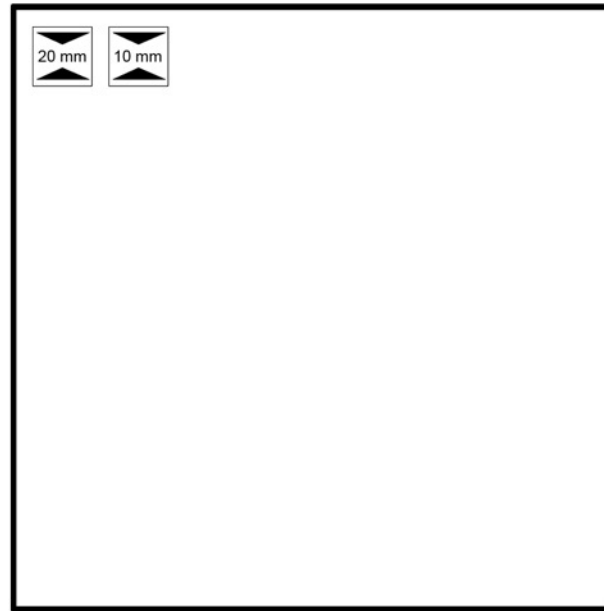


natural



beige





60x60 - 1.0x1.0

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
60x60	20	4	1,44	30	33,20	1016,00	43,20
60x60	10	4	1,44	30	33,20	1016,00	43,20



2 cm



1 cm







OXIDE



grey

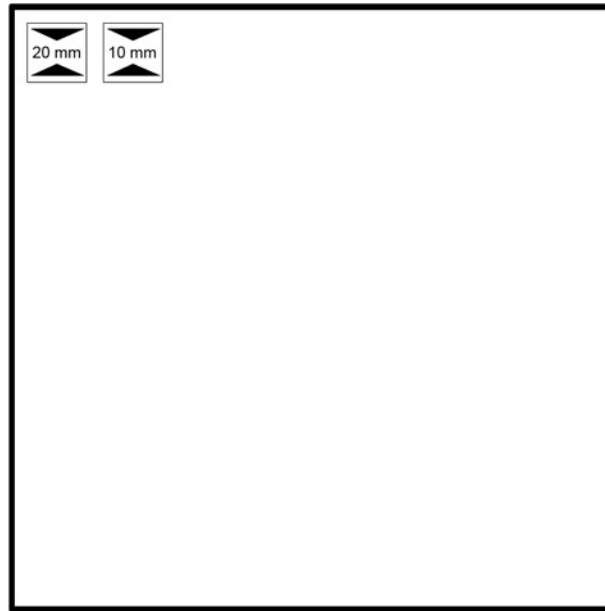


natural



beige





60x60 - 1.0x1.0

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
60x60	20	4	1,44	30	33,20	1016,00	43,20
60x60	10	4	1,44	30	33,20	1016,00	43,20



2 cm



1 cm







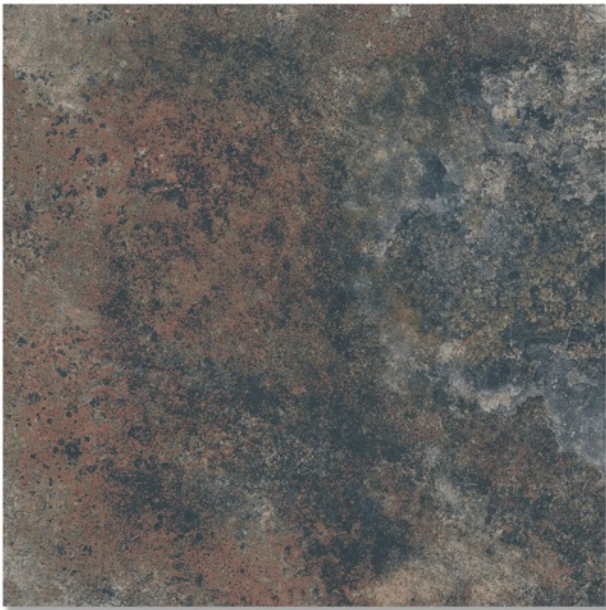
CANYON



beige

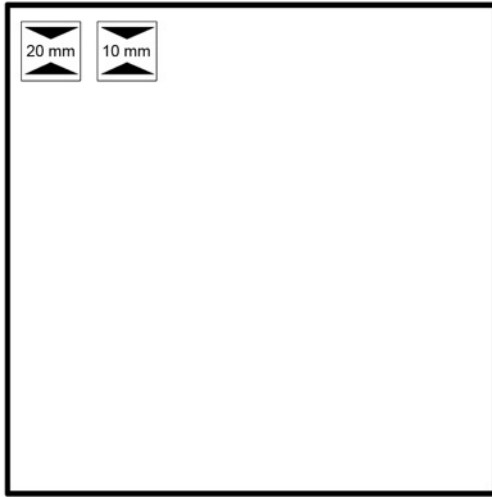


rust

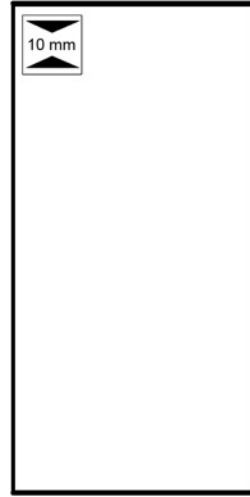


black

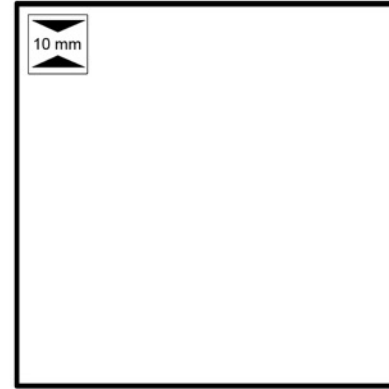




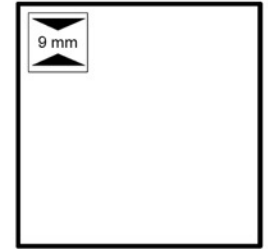
60x60 - ١٠x١٠



30x60 - ٣٠x١٠



45x45 - ٤٥x٤٥



30x30 - ٣٠x٣٠

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
60x60	20	4	1,44	30	33,20	1016,00	43,20
60x60	10	4	1,44	30	33,20	1016,00	43,20
45x45	10	6	1,215	52	27,42	1445,84	63,18
30x60	10	6	1,08	48	24,24	1183,52	51,84
30x30	9	13	1,17	46	23,66	1108,36	53,82



2 cm



1 cm







FOURAT



beige



almond



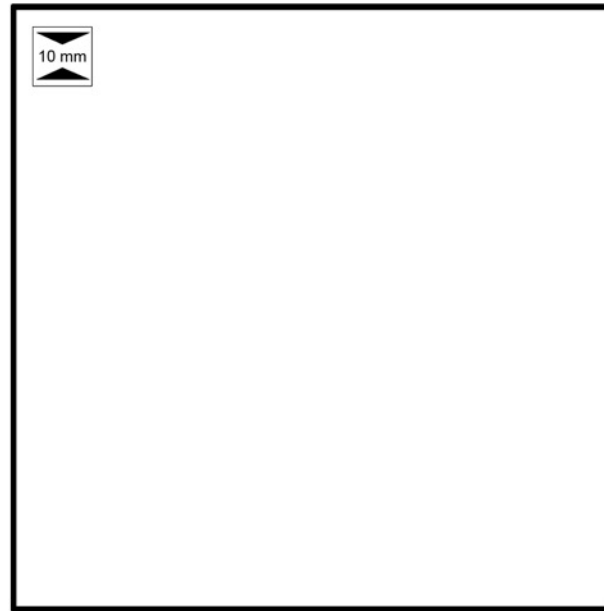
dark beige



nut

Fourat Beige 60x60





packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
60x60	10	4	1,44	30	33,20	1016,00	43,20







OSIE



beige



almond

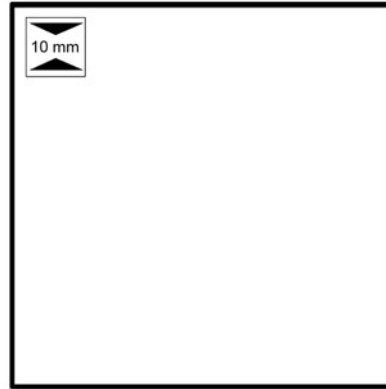


brown



grey





45x45 - ٤٥x٤٥

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
45x45	10	6	1,215	52	27,42	1445,84	63,18

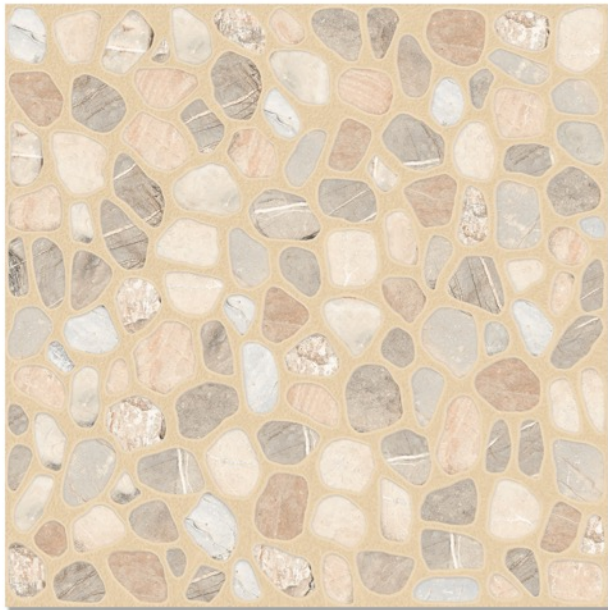
Asie Beige 45x45







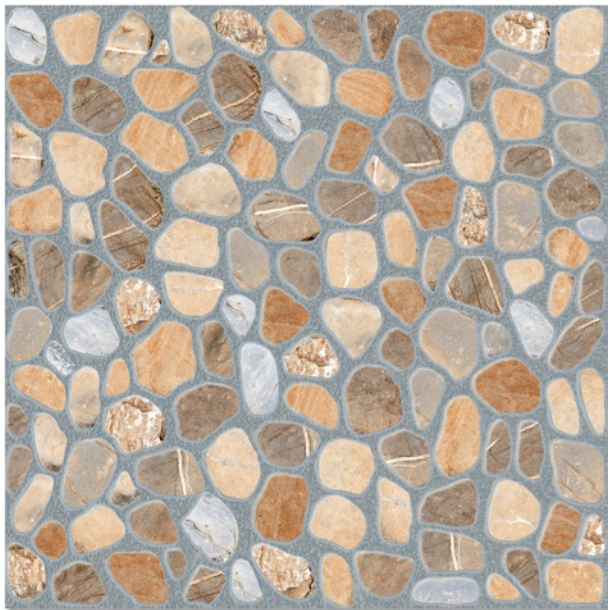
COLORADO



ivory

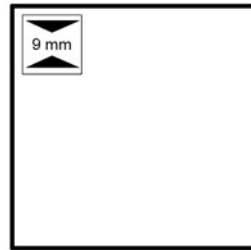


cream



blue





30x30 - ٣٠x٣٠

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
30x30	9	13	1,17	46	23,66	1108,36	53,82







MICHAEL



beige



cream

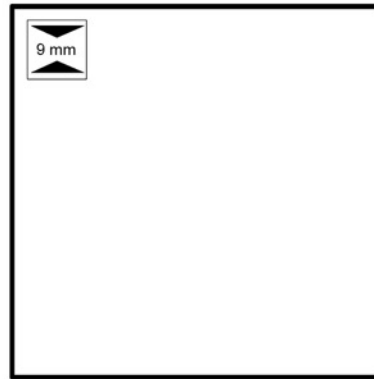


brown



orange





40x40 - ٤٠x٤٠

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
40x40	9	9	1,44	48	29,52	1436,96	69,12

Mississippi Beige 40x40







blavo



ivory

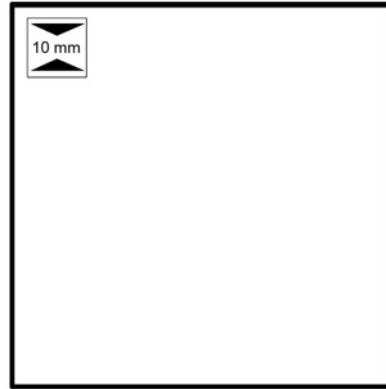


brown



mix





45x45 - ٤٥x٤٥

packing and weight,

SIZE	THICKNESS	PCS/BOX	SQM/BOX	BOX/PALLET	Kg/BOX	Kg/PALLET	SQMS/PALLET
45x45	10	6	1,215	52	27,42	1445,84	63,18



certificates,

ACCREDIA CENTRO CERAMICO - BOLOGNA

LAB N° 0001 Test Report No. 0312/11 Date 11/07/11 Page 3 of 3

ISO 10545-14 : 1997 - Determination of stain resistance

Test solutions	RESISTANCE CLASS				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Chromic green in light oil	5	5	5	5	5
Iodine (alcoholic solution 13g/l)	5	5	5	5	5
Olive oil (Olive Oil Agreement, 1979)	5	5	5	5	5

Stain resistance class - References
 Resistance class 1 Stain not removed
 Resistance class 2 Stain removed by dipping in a suitable solvent for 24 hours
 Resistance class 3 Stain removed by mechanical cleaning and strong cleaning agent
 Resistance class 4 Stain removed by manual cleaning with weak cleaning agent
 Resistance class 5 Stain removed by means of hot normal water for 5 min.

Prof. Eng. Giorgio Tinelli
DIRECTOR

Mod. EN ISO 14. UK (02/10)

ACCREDIA CENTRO CERAMICO - BOLOGNA

LAB N° 0001 Test Report No. 0807/11 Date 11/07/11 Page 2 of 3

Description of the sample
 GIAMBO CERAMICO 33100 10,5 x 45,5 x 0,85 cm quadrato
 "QUARZITE LIGHT GREY".

Manufacturer: _____

Sampling details:
 - Where: _____
 - Date: _____
 - By whom: CUSTOMER
 - How (methods): _____

DATE OF RECEIVAL IN LABORATORY: 04/02/11

TEST PERFORMED:

EN ISO 10545 - Determination of frost resistance - 12.1997

Date of starting: 20/06/11
 Date of ending: 27/06/11

ACCREDIA CENTRO CERAMICO - BOLOGNA

LAB N° 0001 Test Report No. 1030/11 Date 11/07/11 Page 3 of 3

EN ISO 10545-3 : 1997 - Determination of water absorption, apparent porosity, apparent relative density and bulk density

6.1 - BOILING METHOD

Water absorption (%) of each tile:

Sample	1	2	3	4	5
E(t)	0.1	0.0	0.0	0.1	0.1

E(t) Average (%): 0.1

Prof. Eng. Giorgio Tinelli
DIRECTOR

Mod. EN ISO 14. UK (02/10)

CENTRO CERAMICO ACCREDIA

LAB N° 0001 Bologna 11/07/11

SPERIMENTAZIONE PER L'INDUSTRIA CERAMICA

TEST LABORATORY

TEST REPORT No. 3912/11

concerning ceramic tiles according to EN 14411:2006

Requested by: FUTURE CERAMICS
 P.O. Box 2367
 DAMMAM 34327/7351
 KINGDOM OF SAUDI ARABIA (KSA)

On (date): 11/07/11

For the sample marked: "FUTURE CERAMICS"

The results reported relate only to the samples tested. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. The reproduction of this test report is only authorized in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction. This test report consists of 3 pages this cover included.

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ACCREDIA CENTRO CERAMICO - BOLOGNA

LAB N° 0001 Test Report No. 0807/11 Date 11/07/11 Page 3 of 3

EN ISO 10545 - 12.1997 - Determination of frost resistance

Number of tiles in the test sample: 10

Water content before the freeze-thaw test: 0.3

Water content after the freeze-thaw test: 0.1

Description of defects before the test: _____

Damages on the glaze or proper surface and the edges of tiles after the freeze-thaw test: _____

Number of damaged tiles after 100 cycles from -5° C to +5° C: 0

Prof. Eng. Giorgio Tinelli
DIRECTOR

CENTRO CERAMICO ACCREDIA

LAB N° 0001 Bologna 11/07/11

SPERIMENTAZIONE PER L'INDUSTRIA CERAMICA

TEST LABORATORY

TEST REPORT No. 3887/11

concerning ceramic tiles according to EN 14411:2006

Requested by: FUTURE CERAMICS
 P.O. Box 2367
 DAMMAM 34327/7351
 KINGDOM OF SAUDI ARABIA (KSA)

On (date): 11/07/11

For the sample marked: "QUARZITE LIGHT GREY"

The results reported relate only to the samples tested. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. The reproduction of this test report is only authorized in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction. This test report consists of 3 pages this cover included.

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CENTRO CERAMICO
CENTRO DI RICERCA E SPERIMENTAZIONE PER L'INDUSTRIA CERAMICA

ACCREDIA
LAB N° 0028
Specialty of IA, IM and SAC
Mutual Recognition Agreement

Bologna, 11/07/11

Via Marconi, 26 - 40138 Bologna
Tel. (051) 540010 - Fax (051) 500030

CERTICER
LABORATORIO DI ZONA
Via VIII Febbraio, 1 - 41042 Sassuolo
Tel. e Fax (052) 802754
Fax: 052 804779-0275

Spot to
FUTURE CERAMICS
P O Box 2367
Dammam 34327-7351
KINGDOM OF SAUDI ARABIA (KSA)

TEST LABORATORY
TEST REPORT No. 3893/11
concerning ceramic tiles according to EN 14411 2009

Requested by: **YOUSSEF ALKARAKI**
P. O. Box 2367
Dammam 34327-7351
KINGDOM OF SAUDI ARABIA (KSA)

On (date): 13/04/11

For the sample marked:
"CHORA HALL BRIDGE"

The results reported relate only to the samples tested.
No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision.
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CERLAGE EUROPEAN NETWORK OF NATIONAL CERAMIC LABORATORIES - ITALIAN MEMBER

Future Ceramics Ltd. Unit 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

EXVOVA

PORCELAIN TILE TECHNICAL DATA SHEET
BS EN 14411

Client: Future Ceramics Date Received: 12 April 11
Project Name: Internal Quality Check Date Tested: 26 April 11
Tested by: MGS Date Reported: 27 April 11
Sample Description: Granite Effect Porcelain Tile Excess Sample No.: C22/067/1
Glass/Unfinished: Unfinished Lab Request No.: SA/13/0125
Size of sample: 300 x 300 mm Report No.: KSA/12/04/04-0410
Sampling Method: Random Clients Reference: ADM/OTM/0052/11
Ear Group: B3a Sample Reference: N/A

Description	Test Standard	Measurement Unit	BS EN 14411 Requirement	Test Result
APPEARANCE & SURFACE QUALITY				
Length	EN 14411:2010:9	mm	±0.1%	99%
Width	EN 14411:2010:9	mm	±0.1%	99%
Thickness	EN 14411:2010:9	mm	±1%	9.04%
Rectification of sides	EN 14411:2010:9	mm	±0.1%	0.00%
Marking (rectification)	EN 14411:2010:9	mm	±0.1%	0.00%
Surface Condition	EN 14411:2010:9	mm	±0.1%	0.00%
Surface Quality	EN 14411:2010:9	mm	±0.1%	0.00%
PHYSICAL PROPERTIES & DURABILITY				
Water Absorption	EN 14411:2010:9	%	≤0.1%	0.00%
Breaking Strength	EN 14411:2010:9	N	≥1.00 N	1.00 N
Modulus of Rupture	EN 14411:2010:9	N/mm ²	≥10.00 N/mm ²	10.00 N/mm ²
CHEMICAL RESISTANCE				
Acid Resistance (Group 1)	EN 14411:2010:9	Class	CLASS 1	1.00
Alkali Resistance (Group 1)	EN 14411:2010:9	Class	CLASS 1	1.00
Stain Resistance (Group 1)	EN 14411:2010:9	Class	CLASS 1	1.00
RESISTANCE TO STAIN				
Water Staining (Group 1)	EN 14411:2010:9	Class	1	1
Oil Staining (Group 1)	EN 14411:2010:9	Class	1	1
Wine Staining (Group 1)	EN 14411:2010:9	Class	1	1

Client Information: Far and on behalf of Exvo (Saudi Arabia) Co. Ltd
Future Ceramics
Dammam Second Industrial Area
P O Box 2367, Dammam 34327
Tel: +966 3 812 2624
Fax: +966 3 812 2100

AGHON PATEL
COMMERCIAL MANAGER
LABORATORY MANAGER

Lab. Mgr. MGS
KSA/12/04/04-0410
Page 1 of 3

ACCREDIA
LAB N° 0028
CENTRO CERAMICO - BOLOGNA

Test Report No. 3893/11 Date 11/07/11 Page 1 of 3

Description of the sample:
"CHORA HALL BRIDGE"

Manufacturer:
"CHORA HALL BRIDGE"

Sampling details:
Where: _____
Date: _____
By whom: _____
How (methods): _____

DATE OF RECEIVAL IN LABORATORY: 04/09/11

TEST PERFORMED

EN ISO 10545 - 3: 1997 Determination of water absorption, apparent porosity, apparent relative density and bulk density

Date of starting: 30/05/11 Date of ending: 24/05/11

MS CERT

Certificate Of Registration
QUALITY MANAGEMENT SYSTEM

This is to Certify that the Quality Management System of:
FUTURE CERAMICS

Address: **11372, RIYADH, Saudi Arabia**

ANSI/ISO CODE: 2622

Has been assessed and found to meet the requirements of:
ISO 9001:2008

The certificate is valid for the following scope:
Logistics, Ceramic And Porcelain Manufacturing
Certificate Number: EG/QMS00025
Issue no.: 01

Date of approval: 29.09.2012 Valid until: 28.09.2015
Revision no.: nil Revision date: nil

Managing Director

MS CERT **IAS-ANZ** **IAF**

MS CERTIFICATION SERVICES PVT. LTD.
www.ms-certification.com

The Accreditation Body is Joint Accreditation System of Australia and New Zealand (IAS-ANZ)
Level 1, Manners Court, Bank Building, 11 London Circuit, Canberra, ACT 2600
The validity of this certificate can be verified at www.ias-anz.org/register
The Certificate is Valid Only if the Annual Surveillance Mark is Signed by Auditor on Original (EG-003)

Technical specifications for
glazed porcelain stoneware,

	TEST DESCRIPTION	STANDARD TEST	STANDARDS	Future Ceramic
Regularity characteristic	Length And Width	BS EN ISO 10545-2	+0.5%	conform
	Thickness	BS EN ISO 10545-2	+5%	conform
	Straightness of sides	BS EN ISO 10545-2	+0.5%	conform
	Rectangularity	BS EN ISO 10545-2 ASTM C502	+0.6%	conform
	Surfaces Flatness	BS EN ISO 10545-2 ASTM C485	±0.5%	±0.35%
Structural characteristic	Water Absorption	BS EN ISO 10545-3 ASTM C373	<0.5%	≤ 0.2%
Bulk mechanical characteristic	Breaking Strength	BS EN ISO 10545-4	S>1300N	S>2300N
	Modulus Of Rupture	BS EN ISO 10545-4	R≥35N/mm2	R<42N/mm2
Surface mechanical characteristic	Resistance to Surface Abrasion	*BS EN ISO 10545-7	Class 2-5	conform
	Moh's Hardness (Scratch)	SSA 1031	>5	>9
Thermal and hygremetric characteristic	Coefficient Of Thermal Linea Expansion	BS EN ISO 10545-8	< 9 MK	6.9 MK
	Thermal Shock Resistance	SSA 1031 ASTM C484	Test Available	Resistant
	Resistance to Frost	BS EN ISO 10545-12	Required	Resistant
Safety characteristic	Dynamic Friction Coefficient	BRCA	DRY u > 0.40	DRY u > 0.53
	Static Coefficient Of Friction	ASTM C 1028-2007	Slip Resistant >0.60	*0.98 Dry 0.63 wet"
	Non-slip Classification	Din 51130	Ramps Test	R=10
Chemical characteristic	Resistance to Household Chemicals And Swimming Pool Salts	BS EN ISO 10545-13 ASTM C650	Class UB min	GA
	Resistance to Low Concentration of Acid And Alkalis	BS EN ISO 10545-13 ASTM C650	Manufacturer To State Classification	GLA
	Resistance to Low Concentration of Acid And Alkalis	BS EN ISO 10545-13 ASTM C650	Test Available	GHA
	Color Resistance to UV Light	DIN 51094	No Change	No Change
	Resistance to Staining	BS EN ISO 10545-14	No evident Variation	Non Evident
	Lead and Cadumium Leaching	BS EN ISO 10545-15:2000	Lead 0.00 Cadmium0.00	*0.00 0.00"
	Determination of Small Color Differences	BS EN ISO 10545-16	E<1	0.75
Fiscal characteristic	Mousture Expansion	ISO 10545-10	Mm/m	0.03
	Resistance of Freeze	ASTM C 1026-87	Resistant	Resistant
	Shock Resistant	ISO 10545-5	Resistant	Resistant
Qualtiy surface	Determination Surface Quality	SSA 1031/1998	Without Defict 95%	conform

Technical specifications for
porcelain 20mm ,

TEST DESCRIPTION	STANDARD TEST	STANDARDS	Future Ceramic
SURFACE QUALITY	BS EN ISO 10545-2	A minimum of 95% of tiles are to be free from visible defects	A minimum of 95% of tiles are to be free from visible defects
LENGTH & WIDTH	BS EN ISO 10545-2	±0.6%	±0.15%
THICKNESS	BS EN ISO 10545-2	±5%	±0.3%
STRAIGHTNESS OF SIDES	BS EN ISO 10545-2	±0.5%	±0.2%
RECTANGULARITY	BS EN ISO 10545-2	±0.5%	±0.2%
SURFACE FLATNESS: CENTER CURVATURE	BS EN ISO 10545-2	±0.5%	±0.2%
SURFACE FLATNESS: EDGE CURVATURE	BS EN ISO 10545-2	±0.5%	±0.2%
SURFACE FLATNESS: WARPAGE	BS EN ISO 10545-2	±0.5%	±0.2%
WATER ABSORPTION	BS EN ISO 10545-3	≤ 0.5%	≤ 0.2%
BREAKING STRENGTH	BS EN ISO 10545-4	≥ 1300 N	≥ 6500 N
MODULE OF ROPTURE	BS EN ISO 10545-4	≥ 35 N/mm ²	≥ 40 N/mm ²
RESISTANCE OF SURFACE	BS EN ISO 10545-7	manufacturer to state the abrasive class	PEI CLASS - 3 and above
COEFFICIENT OF LINEAR EXPANSION	BS EN ISO 10545-8	≤ 9 Mk	≤6.9 MK
RESISTANCE TO THE THERMAL SHOCK	BS EN ISO 10545-9	test method available	resistant
CRAZING RESISTANCE	BS EN ISO 10545-11	required	resistant
FROST RESISTANCE	BS EN ISO 10545-12	required	resistant
RESISTANCE TO HOUSEHOLD CHEMICALS & SWIMMING POOL SLATS	BS EN ISO 10545-13	Minimu GB	Class GA no visible effect
RESISTANCE TO LOW ACIDS & ALKALIS	BS EN ISO 10545-13	Manufacturer to state classification	Class GLA no visible effect
RESISTANCE TO STAINING	BS EN ISO 10545-14	minimum calss 3	Class 4 minimum, Stais
SLIP RESISTANCE	DIN 51130	-	R10

**FUTURE
CERAMICS**

المستقبل للسيراميك والبورسلان



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