

ATIONAL CERA L

CERAMIC LABORATORY

Shop No. 16, 17, Ground Floor, Dariyalal Plaza, Nr. Argil Ceramic, 8-A, N/H, Morbi - 363 642 (Guj.) INDIA.

Ph.: 02822 244049, Mo.: 98252 62649, 96622 97005, 98257 99418

E-mail: nationalceralab@rediffmail.com

As per all Countries Export report of Wall, Floor, Vitrified Tiles & Sanitary Wares

TEST REPORT

Ref. No.

NCL/Glazed Vitrified Tile /ISO/02/502/2021-22

Report no URL NO.

URL - TC626522000000091F

Page 1 of 2

Date:

Issue date of report Feb. 26, 2022

Name of Company Company Address

TILE MERCHANT

Dockrell's Complex Ballymount Road Upper

Dublin 24 Rep. of Ireland

Name and Identity of test sample

Job Card No:-NCL/2022/D and P/088

Receive Date

12nd Feb. 2022

Date of Test

22/02/2022 to 26/02/2022 (dd/mm/yy)

Type

Dry Press Ceramic Tiles with low water absorption Ev ≤ 0.5% Group BI a

Nominal size (N)

1000X1000 mm (Rectified) 1000x1000x9.0 mm (Rectified)

Work Size (Sw) Nature of surface

Glazed (GL.)

Party Given descripttion

Glazed Vitrified Tiles "High Glossy"

Received Box

Quantity of sample

10 Pieces.

2 page ·

Referance Test standard

ISO 13006:2018 - Annex G , Dry Press Ceramic Tiles with low water absorption (E≤ 0.5%) Group

Bla

No of pages of the report

Test Standard

ISO 13006:2018 Ceramic tiles - Definitions, classification, characteristic and marking

Annex G Dry pressed ceramic tiles Ev ≤ 0.5% Group BI a

| | Standard No. for test method |
|---|---|
| Test Name | ISO 10545 - 2 : 2019 |
| 1 Determination of Dimensions & Surface Quality | ISO 10545 - 2 : 2019 |
| A Length and Width | ISO 10545 - 2 : 2019 |
| B Thickness | ISO 10545 - 2 : 2019 |
| C Straightness of side | ISO 10545 - 2 : 2019 |
| D Rectangularity | ISO 10545 - 2 : 2019 |
| 2 Surface Flatness | ISO 10545 - 2 : 2019 |
| a Centre curvature | ISO 10545 - 2 : 2019 |
| b Edge curvature | ISO 10545 - 3 : 2018 |
| 3 Determination Water Absorption in % | ISO 10545 - 4 : 2019 |
| 4 Determination of Breaking Strendth in N, & Modulus of Rupture N/mm² | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

Tested by

Inspected by

Approved by QM/TM (Jerambhai Kavar)

Nimesh Kavar (Testing Engg.)

Jerambhai Kayar (TM)

Authorised signatory (Jerambhai Kavar)



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Issue date of report

Date: Feb. 26. 2022

| | | | | | | age 2 of 2 |
|---|---|---------------------------------------|--|--|--|-------------|
| T | Kind Of Test | Test Method | Req | uirements | Result | Verdicts |
| ŀ | Kind Of Test | | Whicheve | r is less is | | |
| ١ | Dimensions and Surface Quality | | applicable | | | |
| 4 | Dimensions and Surface Quanty | ISO 10545-2:2019 | | ±0.3% | Aveg. 0.01% | Р |
| A | Length and Width The deviation in mm of the average size of each tile (2 sides) from the work size | | N≥15cm | | Aveg 0.00% | |
| 1 | | | | ±1 mm | Aveg. 0.14mm | Р |
| 1 | | | | ±1 mm | Aveg 0.00mm | |
| | | ISO 10545-2:2019 | | ±5% | Aveg. 0.00% | |
| 3 | Thickness Party declare 9.mm The deviation in mm of the average thickness of 10 tile from the work | | N≥15cm | 20 / 0 | Aveg1.80% | Р |
| 4 | | | | ±0.5 mm | Avg. 0.00mm | |
| | | | | 20.0 11111 | Avg0.16mm | Р |
| | size thickness | | | | | |
| | Straigthness of Sides | I I I I I I I I I I I I I I I I I I I | nding wor | C C 170 | | 14 |
| | The maximum deviation from straigthness re | elated to the correspo | riding wor | ±0.3% | Max 0.03% | Р |
| | Length and Width | ISO 10545-2:2019 | | 10.576 | Max - 0.03% | P |
| | | | N≥15cm | +00 mm | Max 0.38mm | P |
| | | | | ±.0.8 mm | Max 0.39mm | Р |
| | | I see the second | | ±.0.8 mm | IVIAX 0.39IIIII | |
| D | Rectangularity | | | | | |
| | The maximum deviation from straigthness r | elated to the correspond | inding wor | k size | Max 0.03% | Р |
| | Length and Width | ISO 10545-2:2019 | | ±0.3% | | P |
| | 20113 | | N≥15cm | | Max - 0.04% | P |
| | | | | | | |
| | J# | | | ±.0.8 mm | Max 0.40mm | |
| | The maximum dayi | ation from flatness | | ±.0.8 mm | Max - 0.42mm | P |
| 2 | Surface Flatness The maximum devi a) Centre curvature related to diagonal calculated from the work size. | | | | Max - 0.42mm | Р |
| 2 | a) Centre curvature related to diagonal calculated from the work size. | ation from flatness | | ±0.4% | Max - 0.42mm Max 0.03% | |
| 2 | a) Centre curvature related to diagonal | | N≥15cm | ±0.4% | Max - 0.42mm Max 0.03% Max - 0.00% | P |
| 2 | a) Centre curvature related to diagonal calculated from the work size. | | | | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm | Р |
| 2 | a) Centre curvature related to diagonal calculated from the work size. | | | ±0.4% | Max - 0.42mm Max 0.03% Max - 0.00% | P |
| 2 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the | | | ±0.4% ±.1.8 mm | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm | P P |
| 2 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. | | N≥15cm | ±0.4% | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm | P |
| 2 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the | ISO 10545-2:2019 | N≥15cm | ±0.4% ±.1.8 mm | Max 0.03% Max - 0.00% Max - 0.00% Max 0.45mm Max - 0.00mm | P P P |
| 2 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. | ISO 10545-2:2019 | N≥15cm | ±0.4% ±.1.8 mm | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm | P P |
| 2 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. | ISO 10545-2:2019 | N≥15cm | ±0.4% ±.1.8 mm | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm Max - 0.00mm Max 0.04% Max - 0.00% Max 0.44mm Max - 0.00mm | P P P |
| | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. Length and Width | ISO 10545-2:2019 | N≥15cm N≥15cm | ±0.4% ±1.8 mm ±0.4% ±1.8 mm | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm Max - 0.00mm Max - 0.00% Max 0.44mm Max - 0.00mm Average - 0.082% | P P P |
| | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. | ISO 10545-2:2019 | N≥15cm N≥15cm | ±0.4% ±1.8 mm ±0.4% ±1.8 mm | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm Max - 0.00mm Max - 0.00% Max 0.44mm Max - 0.00mm Average - 0.082% Maximum - 0.087% | P P P |
| 3 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. Length and Width | ISO 10545-2:2019 | N≥15cm N≥15cm N≥15cm B Ev ≤ 0.5 Individua | ±0.4% ±.1.8 mm ±0.4% ±.1.8 mm % I maximum 0.6% than 1300 | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm Max - 0.00mm Max - 0.00% Max 0.44mm Max - 0.00mm Average - 0.082% Maximum - 0.087% Average - 2065.93 N | P P P |
| 3 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. Length and Width Water Absorption % | ISO 10545-2:2019 | N≥15cm N≥15cm N≥15cm B Ev ≤ 0.5 Individua | ±0.4% ±1.8 mm ±0.4% ±.1.8 mm % I maximum 0.6% | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm Max - 0.00mm Max - 0.00% Max 0.44mm Max - 0.00mm Average - 0.082% Maximum - 0.087% Average - 2065.93 N Minimum - 1823.30 N | P P P |
| 3 | a) Centre curvature related to diagonal calculated from the work size. Length and Width b) Edge curvature related to the corresponding work size. Length and Width Water Absorption % | ISO 10545-2:2019 | N≥15cm N≥15cm R≥15cm N≥15cm N≥15cm N≥15cm | ±0.4% ±1.8 mm ±0.4% ±.1.8 mm % I maximum 0.6% than 1300 ss ≥ 7.5 mm | Max - 0.42mm Max 0.03% Max - 0.00% Max 0.45mm Max - 0.00mm Max - 0.00mm Max - 0.00% Max 0.44mm Max - 0.00mm Average - 0.082% Maximum - 0.087% Average - 2065.93 N | P P P |

Notes -

1 All inspection are carried out conscientiously to the best of our knowledge and ability.

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3 The result in this report apply to the sample only

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Inspected by

Approved by QM/TM (Jerambhai Kavar)

Nimesh Kavar (Testing Eng)

Jerambhai Kavar (TM)

Authorised signatory (Jerambhai Kavar)

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Issue date of report Feb. 26. 2022

TEST REPORT

Page 1 of 3

Name of Company .

M/s ROLLZA GRANITO LLP

Company Address

At - Sanala Talaviya, Survey No. 11p1, 11p2, 113, Unchi Mandal Talaviya Sanala Road,

Dist - Morbi, Gujarat, India

Name and Identity of test sample

Ceramic Tiles/ NCL/2022/D and P/088A

Receive Date

12nd Feb. 2022

Date of Test

22/02/2022 to 26/02/2022 (dd/mm/yy)

Type

Dry Press Ceramic Tiles with low water absorption Ev ≤ 0.5% Group BI a

Nominal size (N)

1000X1000 mm (Rectified)

Work Size (Sw) Nature of surface 1000x1000x9.0 mm (Rectified)

Party Given description

Glazed (GL.)

Glazed Porcelain Tiles

Received Box

Quantity of sample

30 Pieces.

Referance Test standard

ISO 13006:2018 - Annex G , Dry Press Ceramic Tiles with low water absorption (E≤ 0.5%) Group

Bla

No of pages of the report

3 page

Test Standard

ISO 13006:2018 Ceramic tiles - Definitions, classification, characteristic and marking

Annex G Dry pressed ceramic tiles Ev ≤ 0.5% Group BI a

| Test Name | | Standard No. for test method |
|-----------------------------------|-----------------------|------------------------------|
| | | ISO 10545 - 2 : 2019 |
| 1 Surface Flatness | | ISO 10545 - 2 : 2019 |
| Warpage | | ISO 10545 - 2 : 2019 |
| 2 Surface Quality | | ISO 10545 - 7 : 2007 |
| 3 Resistance to Surface Abrasion | Tac-vore a votal | ISO 10545 - 8 : 2016 |
| 4 Coefficient of Linear Thermal E | xpansion | ISO 10545 - 9 : 2016 |
| 5 Thermal Shock Resistance | | ISO 10545 - 11 : 2007 |
| 6 Crazing Resistance | | ISO 10545 - 12 : 2007 |
| 7 Frost Resistance | | ISO 10545 - 10 : 2006 |
| 8 Moisture Expansion mm/m | | ISO 10545 - 16 : 2014 |
| 9 Small colour differences | | ISO 10545 - 5 : 2006 |
| 10 Impact Resistance | | ISO 10545 - 3 : 2018 |
| 11 Bulk Density, in (g/cc) | | ISO 10545 - 14 : 2016 |
| 12 Resistance to Stain | | ISO 10545 - 13 : 2018 |
| 13 Resistance To Low Concentrat | ion of Acid & Alkali | ISO 10545 - 13 : 2018 |
| 14 Resistance To High Concentra | tion of Acid & Alkali | ISO 10545 - 13 : 2018 |
| 15 Resistance to house chemical | | |
| 16 Resistance to swimming pool s | alt | ISO 10545 - 13 : 2018 |
| 17 Lead and Cadium Release in n | ng/dm² | ISO 10545 - 15 : 2006 |

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Nimesh Kavar (Testing Eng)

Jerambhai Kavar (T.M.)

Authorised signatory (Jerambhai Kavar)

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TEST REPORT

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| T | Kind Of Test | Test Method Requirements | | Result | Verdicts | | |
|-----|--|--------------------------|--|---------------|-------------------------------------|-----|--|
| 1 | Surface Flatness The maximum | deviation from flatness | | | | | |
| | Varpage related to diagonal | | | | | | |
| | calculated from the work size. | | | | | Р | |
| t | Length and Width | ISO 10545-2:2019 | | ±0.4% | Max 0.03% | Р | |
| | 20/19/11/21/2 | | N≥15cm | | Max - 0.00% | - | |
| 1 | | 1 | | ±.1.8 mm | Max 0.45mm | Р | |
| - | | | | | Max - 0.00mm | | |
| 2 | Surface Quality | ISO 10545-2:2019 | Maximum 95% of tile shall be free from visible defects inspected vertically at 1.0 m | | 100% | Р | |
| | Resistance to Surface Abrasion a) Resistance to surface abrasion of glazed tiles | ISO 10545-7:2007 | Report abrasion class and cycles passed | | Class - III 1500 Revolution pass | Р | |
| 4 | Coefficient of Liner Thermal Expansion from ambient temperature to 1003c | ISO 10545-8:2016 | 9X10 ⁻ 6 Max | | 5.54x10 ⁻ 6 | Р | |
| 5 | Thermal Shock Resistance | ISO 10545-9:2016 | Test method available | | Fully resistance | Р | |
| 6 | Crazing Resistance | ISO 10545-11:2007 | Two cycle must pass Required | | Fully resistance | Р | |
| 7 | Frost resistance | ISO 10545-12:2007 | | | Fully resistance | N/A | |
| 8 | Moisture Expansion mm/m | ISO 10545-10:2006 | Test method available | | 0.01 mm/m | Р | |
| 9 | Small colour differences | ISO 10545-16:2014 | Plain coloured tiles only where required GL: Δ < 0.75 | | | N/A | |
| 10 | Impact Resistance Coefficient of restitution (COR) | ISO 10545-5:2006 | | hod available | 0.68 | Р | |
| 11 | Bulk Density , in (g/cc) | ISO 10545-3:2018 | | 2.2 min | 2.2933 g/cc | Р | |
| 915 | Chemical Properties | | | | | | |
| 12 | 2 Resistance to staining ISO 10545-14:2016 | | Min Class - 3 | | Class 5 | Р | |
| | a) Green stain in light oil | 150 10545-14:2016 | Min Class - 3 | | Class 5 | Р | |
| | b) Red stain in light oil | 1 | | | Class 4 | P | |
| • 0 | c) lodine , 13g/L in alcohol d) Olive oil | | | | Class 5 | Р | |



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TEST REPORT

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| _ | Kind Of Test | Test Method | Requirements | Result | Verdicts | | |
|------|---|-------------------|--|-------------------|-------------|--|--|
| | Resistance to Low Concentration of Ac | | | | | | |
| | a) Hydrochloric Acid solution 3% v/v b) Citric Acid Soln. 100gm/L c) Potassium Hydroxide Soln. 30gm/L | ISO 10545-13:2018 | Manufacturer to state classification Manufacturer to state classification Manufacturer to state classification | GLA GLA GLA | P P | | |
| 4.74 | Resistance to High Concentration of A | cid & Alkali | | | | | |
| | a) Hydrochloric Acid solution 18% v/v b) Lactic acid 5% v/v c) Potassium Hydroxide Soln. 100gm/L | ISO 10545-13:2018 | Test method available Test method available Test method available | GHA GHA GHB | P P P | | |
| 15 | House hold chemical resistance Armmonium chloride solution 100gm/L | ISO 10545-13:2018 | Minimum Class B | GA | Р | | |
| 16 | Swimming pool salt : Sodium Hypochorite solution 20mg/L | | Minimum Class B | GA | Р | | |
| 17 | Lead And Cadmium Releas | | | | | | |
| | Lead release, in mg/dm² | ISO 10545-15:2006 | Test method available | 0.004mg/dm² | Р | | |
| | Cadmium release , in mg/dm² | ISO 10545-15:2006 | Test method available | 0.004mg/dm² - | Р | | |

Possible test case verdicts

1 P(ass); Test item does meet the requirement

2 F(Fail): Test item does not meet the requirement.
3 N/A: Test case does not apply to the item.

End of the Test Report