

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.

Report no NCL/Glazed Vitrified Tile /ISO/12/334/2022-23

URL NO.

URL - TC626522000000259F

Date:

Issue date of report Dec. 26. 2022

Page 1 of 3

Name of Company Company Address

Tile Merchant.

Dockrells Complex, Ballymount Rd Upper, Ballymount, Dublin 24, Rep. of Ireland

Name and Identity of test sample

Job Card No:-NCL/2022/D and P/253

Receive Date

15th Dec. 2022

Date of Test

15/12/2022 to 26/12/2022 (dd/mm/yy)

Type

Nominal size (N)

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

Work Size (Sw)

1200X600 mm (Rectified) 1200x600x8.75 mm (Rectified)

Nature of surface

Glazed (GL.)

Party Given descripttion

Glazed Vitrified Tiles (MATT)

Received Box

ICON

Quantity of sample

10 Pieces

Reference Test standard

ISO 13006:2018 - Annex G, Dry Press Ceramic Tiles with low water absorption (Ev ≤ 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
1	Determination of Dimensions & Surface Quality	ISO 10545 - 2 : 2019
Α	Width	ISO 10545 - 2 : 2019
В	Thickness	ISO 10545 - 2 : 2019
2	Determination Water Absorption in %	ISO 10545 - 3 : 2018
3	Determination of Breaking Strength in N, & Modulus of Rupture N/mm³	ISO 10545 - 4 : 2019

Tested by

Checked & Verified By

Reviewed & Approved B

N J teaven_ Nimesh Kavar (Testing Eng.)

Aritra Bera (Testing Eng.)

Jerambhai Kavar(QM/TM)



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	Kind Of Test	Test Method	Requirements as per	Result
			ISO 13006:2018 Annex G	
	Dimensions and Surface Quality		N ≥ 15 cm Whichever is les	ss is applicable
1	Width	ISO 10545-2:2018	±0.3%	Aveg. 0.03%
	The deviation in mm of the average size			Aveg 0.00%
	of each tile (2 sides) from the work size		±1 mm	Avg. 0.16mm
				Avg 0.00mm
2	Thickness Party declare8.75mm	ISO 10545-2:2018	±5%	Aveg. 0.00%
	The deviation in mm of the average thickness			Aveg0.99%
	of 10 tile from the work size thickness		±0.5 mm	Avg. 0.00mm
				Avg0.09mm
3	Water Absorption %	ISO 10545-3:2018	Ev ≤ 0.5 %	
			Individual maximum	Average 0.073%
			0.60%	Maximum 0.082%
4	Breaking Strength in N	ISO 10545-4:2019	Not less than 1300	
			Thickness ≥ 7.5 mm	Average 2230.93 N
	v .			Minimum 2159.60 N
4	Modulus of Rupture (MOR)	ISO 10545-4:2019	Minimum 35	
			Individual minimum 32	Average 57.22 N/mm ²
				Minimum 55.64 N/mm ²

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.

Tested by

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Nimesh Kavar (Testing Eng.)

Aritra Bera (Testing Eng.)

Jerambhai Kavar(QM/TM)

End of the Test Report

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Name of Company

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Company Address

Tile Merchant, Dockrells Complex, Ballymount Rd Upper, Ballymount, Dublin 24, Rep. of Ireland

Name and Identity of test sample

Job Card No:-NCL/2022/D and P/253A

Receive Date

15th Dec. 2022

Date of Test

15/12/2022 to 26/12/2022 (dd/mm/yy)

Туре

Nominal size (N) Work Size (Sw)

Dry Press Ceramic Tiles $\,$ with low water absorption Ev $\leq 0.5\%$ Group BI a 1200X600 mm (Rectified)

1200x600x8.75 mm (Rectified)

Nature of surface Party Given descripttion

Glazed (GL.)

Glazed Vitrified Tiles (MATT)

Received Box Quantity of sample

ICON 10 Pieces.

Reference Test standard

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

BI a

No of pages of the report

Test Standard

3 page

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

Annex G Dry pressed ceramic tiles $Ev \le 0.5\%$ Group BI a

Test Name	Standard No. for test method
1 Length	JSO 10545 0 20010
2 Straightness of side	ISO 10545 - 2 : 2018
3 Rectangularity	ISO 10545 - 2 : 2018
4 Surface Flatness	ISO 10545 - 2 : 2018
a Centre curvature	ISO 10545 - 2 : 2019
b Edge curvature	ISO 10545 - 2 : 2018
c Warpage	ISO 10545 - 2 : 2018
5 Surface Quality	ISO 10545 - 2 : 2018
6 Resistance to Surface Abrasion	ISO 10545 - 2 : 2018
7 Coefficient of Linear Thermal Expansion	ISO 10545 - 7 : 2007
8 Thermal Shock Resistance	ISO 10545 - 8 : 2016
9 Crazing Resistance	ISO 10545 - 9 : 2016
10 Frost Resistance	ISO 10545 - 11 : 2007
11 Moisture Expansion mm/m	ISO 10545 - 12 : 2007
12 Small colour differences	ISO 10545 - 10 : 2006
13 Impact Resistance	ISO 10545 - 16 : 2014
14 Bulk Density , in (g/cc)	ISO 10545 - 5 : 2006
15 Resistance to Stain	ISO 10545 - 3 : 2018
16 Posistance to Stain	ISO 10545 - 14 : 2016
16 Resistance To Low Concentration of Acid & Alkali	ISO 10545 - 13 : 2018
17 Resistance To High Concentration of Acid & Alkali	ISO 10545 - 13 : 2018
18 Resistance to house chemical	ISO 10545 - 13 : 2018
19 Resistance to swimming pool salt	ISO 10545 - 13 : 2018
20 Lead and Cadium Release in mg/dm²	ISO 10545 - 15 : 2006

Tested by

Nimesh Kavar (Testing Eng.)

Checked & Verified By

Obera. Aritra Bera (Testing Eng.)

Reviewed & Approved By

Jerambhai Kavar(QM/TM)

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	Kind Of Test	T4 BB (1	TEST REPORT			
	Killd Of Test	Test Method	Requirements as per	Result		
	Dimensions and Surface Quality		ISO 13006:2018 Annex	G		
	Length	100 100	N ≥ 15 cm Whichever i	s less is applicable		
	The deviation in mm of the average size	ISO 10545-2:2018	3 ±0.3%			
	of each tile (2 sides) from the work size			Aveg. 0.01%		
	or odor the (2 sides) from the work size		±1 mm	Aveg 0.00%		
				Aveg. 0.14mm		
	Straightness of sides. The					
-	the maximum devation from straightness related to the corresponding week.					
•	Length	ISO 10545-2:2018	3 ±0.3%	Max 0.04%		
				Max - 0.04%		
			±.0.8 mm	Max 0.43mm		
	Width			Max 0.42mm		
	WIGHT	ISO 10545-2:2018	±0.3%	Max 0.05%		
				Max - 0.05%		
			±.0.8 mm	Max 0.29mm		
	Postangularity The					
2	Rectangularity, The maximum devation Length	from rectandularity	related to the correspon	nding work size		
0	Length	ISO 10545-2:2018	±0.3%	Max 0.05%		
				Max - 0.05%		
			±.1.5 mm	Max 0.56mm		
	Width			Max - 0.57mm		
	width	ISO 10545-2:2018	±0.3%	Max 0.06%		
				Max - 0.06%		
			±.1.5 mm			
			±.1.5 IIIII	Max 0.35mm		
	Surface Flatness The maximum dev	iation from flatness		Max - 0.37mm		
4	Centre curvature related to diagonal calcul	ated from the work of	70			
a	Length	ISO 10545-2:2018	1+0 40/	In		
		100 10040-2.2010	10.4%	Max 0.03%		
			±.1.8 mm	Max - 0.00%		
		ISO 10545-2:2018	±.1.0 mm	Max 0.53mm		
	Width	100 10043-2.2016	10.40/	Max - 0.00mm		
			±0.4%	Max 0.04%		
1			1.4.0	Max - 0.00%		
			±.1.8 mm	Max 0.36mm		
1	Edge curvature related to the corresponding	a work size		Max - 0.00mm		
5	Length	ISO 10545 2:2040	.0.40/			
-	-	ISO 10545-2:2018	±0.4%	Max 0.05%		
1			1.4.0	Max - 0.00%		
			±.1.8 mm	Max 0.58mm		
Ì	Width	ISO 10545 0:0040	10.40/	Max - 0.00mm		
		ISO 10545-2:2018	±0.4%	Max 0.07%		
				Max - 0.00%		
			±.1.8 mm	Max 0.41mm		
t	Warpage related to diagonal calculated from	a the week.		Max - 0.00mm		
1	Transpage related to diagonal calculated from the work size					
1		ISO 10545-2:2018	±0.4%	Max 0.03%		
	5 ¹ 2			Max - 0.00%		
			1.8 mm	Max 0.53mm		
1	Width	100 105 15		Max - 0.00mm		
ľ		ISO 10545-2:2018	±0.4%	Max 0.04%		
				Max - 0.00%		
			140	Max 0.34mm		



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_	Kind Of Test	Test Method	Requirements	Result		
	Surface Quality	ISO 10545-2:2018	Minimum 95% of tile are to be free from visible defects which impair athe appearance of major area of tiles.	100%		
	Resistance to Surface Abrasion b) Resistance to surface abrasion of glazed tiles	ISO 10545-7:2007	Report abrasion class and cycles passed	Class - V 12000 Revolution pass Stain Pass		
	Coefficient of Liner Thermal Expansion from ambient temperature to 100°c	ISO 10545-8:2016	9X10 ⁻ 6 Max	4.81x10 ⁻ 6		
	Thermal Shock Resistance	ISO 10545-9:2016	Test method available	Fully resistance		
24	Crazing Resistance	ISO 10545-11:2007	Two cycle must pass Test method available	Fully resistance		
	Frost resistance	ISO 10545-12:2007	Required	Fully resistance		
11	Moisture Expansion mm/m	ISO 10545-10:2006	Test method available	0.006 mm/m		
12	Small colour differences	ISO 10545-16:2014	Plain coloured tiles only where required GL: Δ < 0.75	N/A		
13	Impact Resistance Coefficient of restitution (COR)	ISO 10545-5:2006	Test method available	0.85		
14	Bulk Density , in (g/cc)	ISO 10545-3:2018	2.2 min	2.2964 g/cc		
15	Resistance to staining					
	Green stain in light oil Red stain in light oil Iodine , 13g/L in alcohol Olive oil	ISO 10545-14:2016	Min Class - 3 Min Class - 3 Min Class - 3 Min Class - 3	Class 4 Class 4 Class 5		
16	Resistance to Low Concentration	of Acid & Alkali				
b c	Hydrochloric Acid solution 3% v/v Citric Acid Soln. 100gm/L Potassium Hydroxide Soln. 30gm/l	ISO 10545-13:2018	Manufacturer to state classification Manufacturer to state classification Manufacturer to state classification	GLA GLA		
17	Resistance to High Concentration	of Acid & Alkali				
a b c	Hydrochloric Acid solution 18% v/v Lactic acid 5% v/v Potassium Hydroxide Soln. 100gm/l	ISO 10545-13:2018	Test method available Test method available Test method available	GHA GHA GHB		



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	Kind Of Test	Test Method	Requirements	Result	
18	House hold chemical resistance	ISO 10545-13:2018	requirements	Result	
	Ammonium chloride solution 100gm/L		Minimum Class B	GA	
19	Swimming pool salt :				
	Sodium Hypochorite solution 20mg/L	* *	Minimum Class B	GA	
20	Lead And Cadmium Releas				
а	Lead release, in mg/dm²	ISO 10545-15:2006			
			Test method available	0.008mg/dm²	
b	Cadmium release , in mg/dm²	ISO 10545-15:2006			
			Test method available	0.004mg/dm²	

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