

TIONAL 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

Ref. No.

NCL/Glazed Porcelain Tile /ISO/12/333/2022-23

Report no URL NO.

URL - TC626522000000258F

Date:

Page 1 of 2

Issue date of report Dec. 26. 2022

TEST REPORT

Name of Company

Company Address

Tile Merchant,

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

Lab Identity of test sample

Job Card No:-NCL/2022/D and P/252

Receive Date

15th Dec 2022

Date of Test

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

Type

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

Nominal size (N)

1200X600 mm (Rectified)

Work Size (Sw)

1200x600x8.75 mm (Rectified)

Nature of surface

Glazed (GL.)

Party Given descripttion

Glazed Vitrified Tiles(PGVT) Polish

Received Box

ICON

Quantity of sample

Reference Test standard

06 Pieces.

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

Group BI a

No of pages of the report

2 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 : 2018
2	Width	ISO 10545 - 2 : 2018
3	Thickness	ISO 10545 - 2 : 2018
4	Determination Water Absorption in %	ISO 10545 - 3 : 2018
5	Determination of Breaking Strength in N, & Modulus of Rupture N/mm²	ISO 10545 - 4 : 2019

Nimesh Kavar (Testing Eng.)

Checked & Verified By

Aritra Bera (Testing Eng.)

Reviewed & Approved By

Jerambhai Kavar(QM/TM)



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	Kind Of Test	Test Method	Requirements as per	Result
-	Killu Of Test		ISO 13006:2018 Annex G N ≥ 15 cm Whichever is less is applicable	
	Dimensions and Surface Quality	× =		
_	Width	ISO 10545-2:2018	±0.3%	Aveg. 0.02%
	The deviation in mm of the average size of each tile (2 sides) from the work size			Aveg 0.00%
			±1 mm	Avg. 0.09mm
				Avg 0.00mm
2	Thickness Party declare8.75mm The deviation in mm of the average thicknes of 10 tile from the work size thickness	ISO 10545-2:2018	±5%	Aveg. 0.21%
2				Aveg0.00%
			±0.5 mm	Avg. 0.02mm
				Avg0.00mm
2	Water Absorption %	ISO 10545-3:2018	Ev ≤ 0.5 %	
3	Water Absorption %		Individual maximum 0.6%	Average - 0.069%
				Maximum 0.096%
	Breaking Strength in N	ISO 10545-4:2019	Not lass than 1300	
4	Breaking Strength in 14		Thickness ≥ 7.5 mm	Average -2094.99 N
				Minimum 2038.65 N
	Modulus of Rupture (MOR)	ISO 10545-4:2019	Minimum 35	
4	Wooding of Rupture (MOR)		Individual minimum 32	Average 54.91 N/mm ²
				Minimum 52.12 N/mm ²

Notes -

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

2 This report shall not be reproduced, except in full, without the prior writeen approval from the issuing laboratory.

3 The result in this report apply to the sample only.

Tested by

Nimesh Kavar (Testing Eng.)

Aritra Bera (Testing Eng.)

Reviewed & Approved By

Jerambhai Kavar(QM/TM)

End of the Test Report

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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/252A

Receive Date

15th Dec 2022

Date of Test

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

Туре

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

Nominal size (N)

1200X600 mm (Rectified)

Work Size (Sw) Nature of surface

1200x600x8.75 mm (Rectified) Glazed (GL.)

Party Given descripttion

Porcelain Glazed Vitrified Tiles(PGVT) Polish

Received Box

ICON

Quantity of sample

06 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

4 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 Length	ISO 10545 - 2 : 2018	
2 Straightness of side	ISO 10545 - 2 : 2018	
3 Rectangularity	ISO 10545 - 2 : 2018	
4 Surface Flatness	ISO 10545 - 2 : 2019	
a Centre curvature	ISO 10545 - 2 : 2018	
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 - 7 : 2007	
7 Coefficient of Linear Thermal Expansion	ISO 10545 - 8 : 2016	
8 Thermal Shock Resistance	ISO 10545 - 9 : 2016	
9 Crazing Resistance	ISO 10545 - 11 : 2007	
10 Frost Resistance	ISO 10545 - 12 : 2007	
11 Moisture Expansion mm/m	ISO 10545 - 10 : 2006	
12 Small colour differences	ISO 10545 - 16 : 2014	
13 Impact Resistance	ISO 10545 - 5 : 2006	
14 Bulk Density, in (g/cc)	ISO 10545 - 3 : 2018	
15 Resistance 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	

Checked & Verified B

Aritra Bera (Testing Eng.

Jerambhai Kavar(QM/TM)

Nimesh Kavar (Testing Eng.)

Reviewed & Approved By

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Date:

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	Kind Of Test	Toet Mother	TEST REPORT	ue date of report	
		Test Method	Requirements as per ISO	Result	
	Dimensions and Surface Quality		13006:2018 Annex G		
1	Length	190 10545 0 551	N ≥ 15 cm Whichever is I	ess is applicable	
	The deviation in mm of the average size	ISO 10545-2:2018	±0.3%	1	
	of each tile (2 sides) from the work size			Aveg. 0.01%	
-	(= sides) from the work size		±1 mm	Aveg 0.00%	
1				Avea 0.09mm	
2	Straightness of sides, The maximum de Length			Aveg - 0.00mm	
1	Length	vation from straigh	tness related to the corresponding	ponding work size	
I	3	ISO 10545-2:2018	±0.3%	Max 0.04%	
l				Max - 0.04%	
l		-	±.0.8 mm	Max 0.44mm	
ŀ	Width			Max 0.42mm	
l	· · · · · · · · · · · · · · · · · · ·	ISO 10545-2:2018	±0.3%	Max 0.4211111	
l				Max - 0.05%	
			±.0.8 mm		
-	Poctongulo-it. Th			Max 0.28mm	
H	Rectangularity, The maximum devation t	from rectandularity	related to the correspondi-	Max - 0.29mm	
1	-engui	ISO 10545-2:2018	±0.3%	May 0 050	
				Max 0.05%	
			±.1.5 mm	Max - 0.05%	
1	A/: -141		2.1.0 11111	Max 0.59mm	
٧	Vidth	ISO 10545-2:2018	±0.3%	Max - 0.58mm	
			20.070	Max 0.06%	
				Max - 0.06%	
			±.1.5 mm	Max 0.36mm	
S	Surface Flatness The maximum devia	akin a fara fina		Max - 0.35mm	
C	centre curvature related to diagonal and the	ation from flatness		0.0011111	
Ĺ	Centre curvature related to diagonal calcula ength	ted from the work siz	e		
	9	ISO 10545-2:2018	±0.4%	Max 0.03%	
				Max - 0.00%	
		10.0	±.1.8 mm	Max 0.52mm	
٨	/idth	ISO 10545-2:2018		Max - 0.00mm	
			±0.4%	Max 0.04%	
				Max - 0.00%	
				Max 0.34mm	
= /	dae curvature relatado d			Max - 0.00mm	
- '	dge curvature related to the corresponding	work size		IVIAX - U.UUITIITI	
. 6	ingtii .	ISO 10545-2:2018	±0.4%	Max 0.03%	
				Max - 0.00%	
		- 1	±.1.8 mm	Max 0.50%	
Wi	idth			Max 0.52mm	
	aun	ISO 10545-2:2018		Max - 0.00mm	
V				Max 0.04%	
۷				Max - 0.00%	
V				Max 0.34mm	
	arpage related to diagonal calculated from	the work size		Max - 0.00mm	
Va	The state of the diagonal calculated from	Length ISO 10545-2:2018 ±0.4%			
/;	arpage related to diagonal calculated from ngth		LU. 7/0	Max 0.03%	
Va	ngth	100 10040-2.2016		1011 0 0001	
Va	ngth			Лах - 0.00%	
V:	ngtn		.8 mm	/lax 0.59mm	
/a	det	1	.8 mm N	/lax 0.59mm /lax - 0.00mm	
/a	det	1	.8 mm N	/lax 0.59mm	
/a	det	SO 10545-2:2018 ±	.8 mm	/lax 0.59mm /lax - 0.00mm	
/a	det	SO 10545-2:2018 ±	.8 mm N N .0.4% N	Max 0.59mm Max - 0.00mm Max 0.04%	



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	Kind Of Test	Test Method	Requirements	Doguit	
,	Surface Quality	ISO 10545-2:2018	Minimum 95% of tile are to be	Result	
			free from visible defects which	1000/	
		-	impair athe appearance of	100%	
_			major area of tiles.		
6	Resistance to Surface Abrasion	ISO 10545-7:2007	Report abrasion class and	01- 01-	
	b) Resistance to surface abrasion		cycles passed	Class - IV	
	of glazed tiles		oyolos passed	2100 Revolution pas	
7	The state of Lines in the initial	ISO 10545-8:2016		8"	
	Expansion		9X10 ⁻ 6 Max		
	from ambient temperature to 100°c		OX TO O IVIAX	4.83x10 ⁻ 6	
8	Thermal Shock Resistance	ISO 10545-9:2016	Test method available		
			rest method available		
				Fully resistance	
9	Crazing Resistance	ISO 10545-11:2007	Two sucle must		
		100 10040-11.2007	Two cycle must pass		
			Test method available	Fully resistance	
10	Frost resistance	ISO 10545-12:2007			
		100 10040-12.2007	Descript		
			Required	N/A	
11	Moisture Expansion mm/m	ISO 10545-10:2006	Tt		
		100 10040-10.2006	Test method available	BOG has	
				0.006 mm/m	
12	Small colour differences	100 10515 10 0011			
	anioronoc3	ISO 10545-16:2014	Plain coloured tiles only where		
	. · ·		required	N/A	
3	Impact Resistance		GL: Δ < 0.75		
	Coefficient of restitution (COR)	100 40545 5 5555			
-	Coefficient of restitution (COR)	ISO 10545-5:2006	Test method available	0.85	
-	2			,	
4	Bulk Density , in (g/cc)	100 107 17			
1	bulk belisity, iii (g/cc)	ISO 10545-3:2018			
-			2.2 min	2.2974 g/cc	
5	Resistance to staining				
4	Green stain in light oil				
	Red stain in light oil	ISO 10545-14:2016	Min Class - 3	Class 4	
- 1	Indipo 12a/Lin January		Min Class - 3	Class 4	
	lodine , 13g/L in alcohol		Min Class - 3	Class 4	
1	Olive oil		Min Class - 3	Class 5	
	Popietowas to L			0.0000	
4	Resistance to Low Concentration of	of Acid & Alkali			
all	Hydrochloric Acid solution 3% v/v	ISO 10545-13:2018	Manufacturer to state classification	GLA	
	Citric Acid Soln. 100gm/L		Manufacturer to state classification	GLA	
	Potassium Hydroxide Soln.		Manufacturer to state classification	GLA	
7 -	B0gm/l		The state of a smit attorn	OLA	
F	Resistance to High Concentration	of Acid & Alkali			
2/1	hydrochloric Acid solution 18% v/v ISO 10545-13:2018 Tost method evallable				
IL	actic acid 5% v/v		Test method available	GHA	
	Potassium Hydroxide Soln.		Test method available	GHA GHB	
가	00gm/l				



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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			
		9	Test method available	0.008mg/dm²	
b	Cadmium release , in mg/dm²	ISO 10545-15:2006			
	,	100 100 10.2000	Test method available	0.004mg/dm²	

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