

**TECHNICAL SPECIFICATION
AND ACTUAL QUALITY DATA**

Sample Test : 25521 (Vienna Scabas)
Production Date : July 4th, 2008

TEST METHOD	TECHNICAL FEATURES	ISO REQUIREMENT	ROMAN STANDARD	ACTUAL DATA
ISO 10545-2	Side Dimensions	± 0.5 %	± 0.2 %	0.16 %
ISO 10545-2	Thickness	± 10 %	± 3 %	2.3 %
ISO 10545-2	Side Straightness	± 0.3 %	± 0.2 %	0.11 %
ISO 10545-2	Rectangularity	± 0.5 %	± 0.2 %	0.26 %
ISO 10545-2	Flatness	- 0.3 % to + 0.5%	- 0.15 % to + 0.25%	-0.1% to +0.2%
ISO 10545-2	Warpage	± 0.5 %	± 0.25 %	0.04 %
ISO 10545-3	Water Absorbtion	> 10 %	< 18 %	16 %
ISO 10545-4	Modulus Of Repture	≥ 15 N/mm ²	> 17 N/mm ²	20.53 N/mm ²
ISO 10545-6	Deep Abrasion Resitance	Not Required	Not Required	Not Required
ISO 10545-7	Surface Abration Resistance	Not Required	Not Required	Not Required
ISO 10545-8	Linear Thermal Expansion	Not Required	Not Required	Not Required
ISO 10545-9	Thermal Shock Expansion	Not Required	Not Required	Not Required
ISO 10545-11	Crazing Resistance	Resistant	Resistant (Autoclave test 7,5 bar/cm ² , 2 hours)	Resistant (Autoclave test 7.5 bar/cm ² 2 hours) (6 cycles passed)
ISO 10545-12	Frost Resistance	Not Required	Not Required	Not Required
ISO 10545-13	Chemical Resistance	Resistant	Resistant (Min Class B)	Resistant (Class A)
ISO 10545-14	Resistance to Staining Of Glazed Tile	Resistant	Resistant (Min Class 4)	Resistant (Class 5)

Issued Date : August 26th, 2008

Approved Signatories



Iskandar Robin
Head of Laboratory



Popong Asdiyanto A
Head of R & D Section



Widji Astuti
Test Officer

**TECHNICAL SPECIFICATION
AND ACTUAL QUALITY DATA**

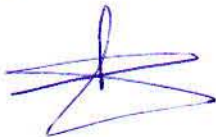
Sample Product : 40545 (Cubique Blue)

Production Date : August 14th, 2008

TEST METHOD	TECHNICAL FEATURES	ISO REQUIREMENT	ROMAN STANDARD	ACTUAL DATA
ISO 10545-2	Side Dimensions	+ 0.5 %	+ 0.2 %	0.16 %
ISO 10545-2	Thickness	+ 10 %	± 3 %	1.25 %
ISO 10545-2	Side Straightness	+ 0.3 %	+ 0.2 %	0.04 %
ISO 10545-2	Rectangularity	+ 0.5 %	+ 0.2 %	0.25 %
ISO 10545-2	Flatness	- 0.3 % to + 0.5%	- 0.15 % to + 0.25%	0.02% to +0.22%
ISO 10545-2	Warpage	+ 0.5 %	+ 0.25 %	0.04 %
ISO 10545-3	Water Absorbtion	> 10 %	< 18 %	15.48 %
ISO 10545-4	Modulus Of Repture	≥ 15 N/mm ²	> 17 N/mm ²	25.85 N/mm ²
ISO 10545-6	Deep Abrasion Resitance	Not Required	Not Required	Not Required
ISO 10545-7	Surface Abrasion Resistance	Not Required	Not Required	Not Required
ISO 10545-8	Linear Thermal Expansion	Not Required	Not Required	Not Required
ISO 10545-9	Thermal Shock Expansion	Not Required	Not Required	Not Required
ISO 10545-11	Crazing Resistance	Resistant (Autoclave test 5 bar/cm ² , 2 hours) (1 cycle passed)	Resistant (Autoclave test 7,5 bar/cm ² , 2 hours) (Min. 6 cycles passed)	Resistant (Autoclave test 7.5 bar/cm ² 2 hours) (6 cycles passed)
ISO 10545-12	Frost Resistance	Not Required	Not Required	Not Required
ISO 10545-13	Chemical Resistance	Resistant	Resistant (Min Class B)	Resistant (Class B)
ISO 10545-14	Resistance to Staining Of Glazed Tile	Resistant	Resistant (Min Class 4)	Resistant (Class 5)

Issued Date : August 26th, 2008

Approved Signatories



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**TECHNICAL SPECIFICATION
AND ACTUAL QUALITY DATA**

Sample Product : 45247 (Rhapsody Yellow)

Production Date : August 2nd, 2008

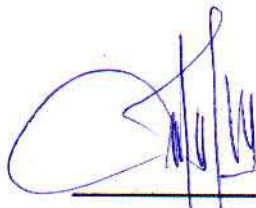
TEST METHOD	TECHNICAL FEATURES	ISO REQUIREMENT	ROMAN STANDARD	ACTUAL DATA
ISO 10545-2	Side Dimensions	+ 0.5 %	+ 0.2 %	0.12 %
ISO 10545-2	Thickness	+ 10 %	+ 3 %	2.90 %
ISO 10545-2	Side Straightness	+ 0.3 %	+ 0.2 %	0.05 %
ISO 10545-2	Rectangularity	+ 0.5 %	+ 0.2 %	0.12 %
ISO 10545-2	Flatness	- 0.3 % to + 0.5%	- 0.15 % to + 0.25%	0.03% to +0.2%
ISO 10545-2	Warpage	+ 0.5 %	+ 0.25 %	0.04 %
ISO 10545-3	Water Absorbtion	> 10 %	< 18 %	16.22 %
ISO 10545-4	Modulus Of Repture	≥ 15 N/mm ²	> 17 N/mm ²	24.60 N/mm ²
ISO 10545-6	Deep Abrasion Resitance	Not Required	Not Required	Not Required
ISO 10545-7	Surface Abrasion Resistance	Not Required	Not Required	Not Required
ISO 10545-8	Linear Thermal Expansion	Not Required	Not Required	Not Required
ISO 10545-9	Thermal Shock Expansion	Not Required	Not Required	Not Required
ISO 10545-11	Crazing Resistance	Resistant (Autoclave test 5 bar/cm ² , 2 hours) (1 cycle passed)	Resistant (Autoclave test 7,5 bar/cm ² , 2 hours) (Min. 6 cycles passed)	Resistant (Autoclave test 7.5 bar/cm ² 2 hours) (6 cycles passed)
ISO 10545-12	Frost Resistance	Not Required	Not Required	Not Required
ISO 10545-13	Chemical Resistance	Resistant	Resistant (Min Class B)	Resistant (Class B)
ISO 10545-14	Resistance to Staining Of Glazed Tile	Resistant	Resistant (Min Class 4)	Resistant (Class 5)

Issued Date : August 26th, 2008

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