

SPK Series



Product Type Glazed Mosaics





Cushioned Edge







GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.

Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminates. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB197:1999 - An Introductory guide to the slip resistance of pedestrian surface materials.

There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.

WARNING: Other standards and building code requirements may affect your selection of tiles.

Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 5 - Floor coverings that are subject to severe pedestrian traffic over sustained periods with some scratching dirt, so that the conditions are the most severe for which tiles may be suitable; For example, shop, foyers, and some light industrial applications.

THAI CERAMIC CO., LTD.

 $Manufacturing: 33/1\ Moo\ 2\ Suwannasorn\ Road,\ Khokyae,\ Nongkhae\ District,\ Saraburi\ 18230\ Thailand$

Telephone : 036 382888 Fax : 036 305335

Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
 MT 4SR1-SD-0110 (NET/PACK 25) (AUS) PM

Characteristics	Specif	ication 13006	Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm			
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700		Not less than 700	ISO 10545-4
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Resisted	ISO 10545-11		
8. Frost Resistance	Req	uired	Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
 10. Resistance to Staining a) Stains leaving a trace (pastes) b) Stains having chemical/ oxidizing action 	Minimun Minimun	n Class 3 n Class 3	Minimum Class 3 Minimum Class 3	ISO 10545-14		
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum	class GB	Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

Approved by : Monthathip Pongsiri

Technical Office Manager Date : 22-08-2017

SPK Series

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
 MT 4SR1-SD-0787 (NET/PACK 25) (AUS) PM

Characteristics	Specif	ication 3006	Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700		Not less than 700	ISO 10545-4
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Resisted	ISO 10545-11		
8. Frost Resistance	Required		Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	sification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staininga) Stains leaving a trace (pastes)		1 Class 3	Minimum Class 3	ISO 10545-14		
b) Stains having chemical/ oxidizing action	Minimum Class 3		Minimum Class 3			
c) Stains, forming a film 11. Resistance to Chemicals	Minimum Class 3		Minimum Class 3			
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum	class GB	Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
MT 4SR1-SD-0541 (NET/PACK 25) PM

Characteristics	Specification ISO 13006		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700	ISO 10545-4		
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		Minimum Class 2: 600 cycle	ISO 10545-7		
7. Crazing Resistance	Required		Required		Resisted	ISO 10545-11
8. Frost Resistance	Required		Required		Resisted	ISO 10545-12
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staining a) Stains leaving a trace (pastes)	Minimum Class 3		Minimum Class 3			
b) Stains having chemical/ oxidizing action	Minimun	n Class 3	Minimum Class 3	ISO 10545-14		
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum class GB		Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
MT 4SR1-SD-0786 (NET/PACK 25) PM

Characteristics	Specif ISO ²		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700	ISO 10545-4		
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Required		Resisted	ISO 10545-11
8. Frost Resistance	Required		Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	sification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staining a) Stains leaving a trace (pastes)	Minimum Class 3		Minimum Class 3	ISO 10545-14		
b) Stains having chemical/ oxidizing action	Minimun	n Class 3	Minimum Class 3	130 10343-14		
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum class GB		Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
MT 4SR1-SD-0771 (NET/PACK 25) PM

Characteristics	Specification ISO 13006		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm			
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700		Not less than 700	ISO 10545-4
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Required		Resisted	ISO 10545-11
8. Frost Resistance	Required		Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staining a) Stains leaving a trace (pastes)	Minimun	n Class 3	Minimum Class 3	ISO 10545-14		
b) Stains having chemical/ oxidizing action	Minimun	n Class 3	Minimum Class 3			
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum	class GB	Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
 MT 4SR1-SD-0707 (NET/PACK 25) (AUS) PM

Characteristics	Specif	ication 3006	Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700		Not less than 700	ISO 10545-4
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Resisted	ISO 10545-11		
8. Frost Resistance	Required		Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	sification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staininga) Stains leaving a trace (pastes)		1 Class 3	Minimum Class 3	ISO 10545-14		
b) Stains having chemical/ oxidizing action	Minimum Class 3		Minimum Class 3			
c) Stains, forming a film 11. Resistance to Chemicals	Minimum Class 3		Minimum Class 3			
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum	class GB	Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
MT 4SR1-SD-0706 (NET/PACK 25) PM

Characteristics	Specification ISO 13006		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700	ISO 10545-4		
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		Minimum Class 2: 600 cycle	ISO 10545-7		
7. Crazing Resistance	Required		Required		Resisted	ISO 10545-11
8. Frost Resistance	Required		Required		Resisted	ISO 10545-12
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staining a) Stains leaving a trace (pastes)	Minimum Class 3		Minimum Class 3			
b) Stains having chemical/ oxidizing action	Minimun	n Class 3	Minimum Class 3	ISO 10545-14		
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum class GB		Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
 MT 4SR1-SD-0651 (NET/PACK 25) (AUS) PM

Characteristics	Specification ISO 13006		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700		Not less than 700	ISO 10545-4
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		Minimum Class 2: 600 cycle	ISO 10545-7		
7. Crazing Resistance	Required		Resisted	ISO 10545-11		
8. Frost Resistance	Required		Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	sification	R-10	AS/NZS 4586; Appendix D		
 10. Resistance to Staining a) Stains leaving a trace (pastes) 	Minimum Class 3		Minimum Class 3	ISO 10545-14		
b) Stains having chemical/ oxidizing actionc) Stains, forming a film	Minimum Class 3		Minimum Class 3 Minimum Class 3			
11. Resistance to Chemicals	Minimum Class 3		WITHINGTH CLASS 3			
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum class GB		Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
MT 4SR1-SD-0640 (NET/PACK 25) PM

Characteristics	Specification ISO 13006		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700	ISO 10545-4		
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		Minimum Class 2: 600 cycle	ISO 10545-7		
7. Crazing Resistance	Required		Required		Resisted	ISO 10545-11
8. Frost Resistance	Required		Required		Resisted	ISO 10545-12
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staining a) Stains leaving a trace (pastes)	Minimum Class 3		Minimum Class 3			
b) Stains having chemical/ oxidizing action	Minimun	n Class 3	Minimum Class 3	ISO 10545-14		
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum class GB		Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
 MT 4SR1-SD-0708 (NET/PACK 25) (AUS) PM

Characteristics	Specif	ication 13006	Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm	100 40545 0		
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700	ISO 10545-4		
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Resisted	ISO 10545-11		
8. Frost Resistance	Req	uired	Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
 10. Resistance to Staining a) Stains leaving a trace (pastes) b) Stains having chemical/ oxidizing action 	Minimun Minimun	n Class 3 n Class 3	Minimum Class 3 Minimum Class 3	ISO 10545-14		
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum	class GB	Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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Quality Specification Report

Product Product Code Ceramic Tiles Group Bla, Eb ≤ 0.5%
MT 4SR1-SD-0335 (NET/PACK 25) PM

Characteristics	Specification ISO 13006		Specification TCC	Test Methods		
 Width & Length: the deviation, in percent, of the average size for each tile (two or four sides) from the work size, Sw 	-	<u>+</u> 0.9 mm	97.0 ± 0.9 mm			
 Thickness, the deviation, in percent, of the average thickness of each tile from the work size, thickness 	-	<u>+</u> 0.5 mm	6.0 ± 0.5 mm	ISO 10545-2		
3. Water Absorption, percent mass fraction	Eb ≤	0.5 %	Eb ≤ 0.5 %	ISO 10545-3		
4. Modulus Of Ruptrue, N/mm2	Minim	um 35	Minimum 35	ISO 10545-4		
5. Breaking Strength (N) Thickness < 7.5 mm	Not less than 700		Not less than 700		Not less than 700	ISO 10545-4
6. Resistance to Surface Abrasion of Glazed Tiles	State Classification		State Classification		Minimum Class 2: 600 cycle	ISO 10545-7
7. Crazing Resistance	Required		Required		Resisted	ISO 10545-11
8. Frost Resistance	Required		Resisted	ISO 10545-12		
9. Slipperiness, R-Test	State Cla	ssification	R-10	AS/NZS 4586; Appendix D		
10. Resistance to Staining a) Stains leaving a trace (pastes)	Minimun	n Class 3	Minimum Class 3	ISO 10545-14		
b) Stains having chemical/ oxidizing action	Minimun	n Class 3	Minimum Class 3			
c) Stains, forming a film	Minimum Class 3		Minimum Class 3			
11. Resistance to Chemicals						
a) Resistance to low concentrations of acids , glazed tiles	State Classification		Minimum Class GLB			
b) Resistance to low concentrations of alkalis, glazed tiles	State Classification		Minimum Class GLB	ISO 10545-13		
c) Resistance to household chemicals, glazed tiles	Minimum	class GB	Minimum Class GB			
d) Resistance to swimming pool salts, glazed tiles	Minimum	class GB	Minimum Class GB			

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