COSMOS WHITE MATT 600x600



Class 1 Building Product Information Requirements Self-Assessment

Product Name: COSMOS WHITE MATT 600x600

Product Identifier: COMWHM60

Product Description: A glazed porcelain tile with an R10 matt finish and a water absorption rate of less than 0.02%.

Building Code Obligations

Code Clauses:

B2 - Durability

B2.3.1

C3 - Fire affecting areas beyond the

source

D1 – Access routes

D1.3.3

E3 – Internal moisture

E3.3.2, 3.3.3, 3.3.4

G3 - Food preparation and prevention of

contamination

G3.3.2

G6 - Airborne and Impact sound

G6.3.1





Scope	Use
B2 Durability	See below Suitability table.
C3 Fire	The Building Code relating to fire ratings regulation and standards become mandatory from April 2013, establishing the list of products belonging to Classes A 'No Contribution to Fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.
D1 Access Routes	Acceptable for use under D1/AS1
E3 Internal Moisture	E3 Internal Moisture (AS1 and AS2) is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed. Prevention of the creation of mould is a combination of temperature, insulation, and ventilation. Prevention of water damaging other building elements is about a complete system and installation details (i.e. Compliant and approved Waterproofing and sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information on compliant systems that meet the durability requirements of B2 that requires 15 years performance and a Producer Statement (PS3) for waterproofing.
G3 Food Preparation and Prevention from Contamination	As an Impervious and easy to clean Surface this range complies
G6 Airborne and Impact Sound	If required Tiles can form part of an acoustic system to comply with IIC and STC in conjunction with an approved third-party system.

Suitability	Residential	Light Commercial	Commercial	Industrial
Indoor Floor	✓	✓	✓	-
Indoor Walls	✓	✓	✓	✓
Outdoor Floor	✓	✓	✓	✓
Outdoor Cladding	✓	✓	✓	✓
Frost Resistant	✓	✓	✓	✓
Swimming Pool Submerged	✓	✓	✓	✓
Swimming Pool Surround	✓	✓	✓	✓
Paving	-	-	-	-
Over Underfloor Heating	✓	✓	✓	✓
Commercial Kitchen Wall	✓	✓	✓	✓
Within 1.5m of a Plumbing Fixture or Fitting	✓	✓	✓	✓

Specifications	
CODE	COMWHM60
TILE SIZE (mm)	600x600
THICKNESS (mm)	10
SUITABILITY	Floor/Wall
FINISH	Matt
CLASS	PEI Class 4: Moderate to heavy traffic, All residential as well as medium
	commercial and light industral.
RECTIFIED	Yes
WEIGHT (kg)	7.75
COEFFICIENT OF FRICTION	0.40
SLIP RATING	R10
TILES PER BOX	4
M2 PER BOX	1.44
PATTERNS/FACES	6
COUNTRY OF ORIGIN	China

Building Code Clause and Contribution

B2 - Durability

Compliance with B2 Durability is about providing evidence that the product will meet the relevant durability life in the context of the environment in which it will be located.

The building code sets out the framework for establishing the relevant durability life of building elements based on a number of criteria. B2/AS1 provides a decision tree to establish the relevant durability for common building materials in different circumstances.

Having determined the durability life of the product, the next step is to determine if the product, when exposed to the environment, will continue to perform for the relevant period. A key tool which a product supplier can consider in claiming compliance is limiting the environment in which the product will be exposed to (e.g. a ferrous material used in an indoor environment will last longer than it would when exposed to salt spray — in this example it would be appropriate for the supplier to condition the compliance information to use only in indoor environments).

C3 - Fire affecting areas beyond the source.

C3 Fire affecting areas beyond the fire source is primarily about ensuring that fire does not spread from a fire in the building (in both vertically and horizontally) and from an adjacent building.

The prime product attribute used is the fire resistance rating (FRR) methodology. In most cases a product is combined with other products to achieve a FRR (e.g. an external wall fire rating may be formed by the combination of the external cladding, thermal insulation and the internal lining.

C/AS1 and C/AS2 set out performance criteria for buildings and in particular the FRR requirements for various types of buildings and parts of buildings. Appendix C of C/AS2 sets out test methods for the building elements involved in spread of fire. Appendix B of C/AS2 sets out performance criteria for sprinkler systems while Appendix A sets out criteria for fire safety systems such as alarms and hydrants.

D1 - Access routes

For D1 access routes, in most cases product-related compliance for access routes are slip resistance for floors and the shapes/locations etc of handrails. The Acceptable Solution for access D1/AS1 and NZS 4121:2001 provide good information on compliance for products on access routes.

E3 - Internal Moisture

E3 Internal Moisture is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed. Prevention of the creation of mould is a combination of temperature, insulation and ventilation. Prevention of water damaging other building elements is mainly about installation details (i.e. sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information.

G3 - Food preparation and prevention of contamination

G3 Food preparation and prevention from contamination for a product (such as a kitchen bench) is mainly associated with being easily cleaned and impervious.

G3/AS1 provides some general design details for food preparation areas but has no referenced product standards, although the document does state some acceptable materials used for surfaces. Compliance with G3/AS1 is not mandatory but provides a good benchmark for compliance.

G6 - Airborne and Impact Sound

For a product, G6 Airborne and impact sound is generally about systems which are designed to work together to achieve the necessary sound attenuation.

The code itself at G6.3.2 sets a quantifiable performance level: "The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55" and G6.3.2 sets the impact insulation class of floors shall be no less than 55. The Acceptable Solution G6/AS1 sets out the transmission and impact insulation class of common wall systems. G6/VM1 sets out test methodologies where the details do not match those of G6/AS1.



Website: www.tilewarehouse.co.nz









INSPECTION REPORT

No: 18030870

国家建筑人民

PRODUCT

Porcelain Glazed Tile

NOMINAL SIZE

600mmx600mmx9.5mm

TRADE MARK

Estralla

CLIENT

Foshan Estrella Building Materials Co., Ltd.

INSPECTION TYPE

Sampling

National Quality Supervision Inspection Center of Building and Sanitary Ceramics. CHINA

ATTENTION

- 1. This inspection report should be invalid without the special signet of the testing body.
- 2. Any copy of the report should be invalid except for signet on the testing body again.
- This report should be invalid in case one of the three of compiler, auditor, approver was absent.
- 4. This report should be invalid if altered.
- Any objection should be raised to the testing body in fifteen days after reception, it would be rejected if late.
- 6. The report is only responsible for the commissioned samples in commission inspection.

Address: China Building Material Certification Tower, North of Hongguang Road, Wangsi-

Street, Fengdong New Town in Xixian New Area, Shaanxi, China,

Contact: 0086-29-68225880

Report Enquiry: 0086-29-68225839

Fax: 0086-29-68225881

Zip Code: 710116

Http: //www.ceramictest.com

E-mail: shxctc@163.com

INSPECTION REPORT

Product	Porcelain Glazed Tile	Nominal Size	600mm×600mm×9.5mm
Product	Porceiain Giazed Tile	Work Size	600mm×600mm×9.5mm
Client	Foshan Estrella Building Materials Co., Ltd	Trade Mark	Estrella
Manufacturer		Inspection Type	Sampling
Client Address	Room 02, Unit 706, Building 4, No.133 West Jihua Road, Chancheng District, Foshan, Guangdong, China	Group	ВІа
Manufacturer Address		Production Date/Batch	2018.03
Sampling Position	Storehouse of manufacturer	Sampler	Ma Zhuan E Li Wen Qing
Sampling Quantity	4 boxes (16 pieces)	Sampling Date	2018.03.17
Sampling Base	2000 boxes	Receive Date	2018.03.27
Inspection Standard	GB/T 4100-2015 GB 6566-2010 HJ/T 297-2006	Inspection Item	See page 2
Inspection Date	2018.03.27~2018.04.10	Sample Description	Glazed and polished surface
Inspection Conclusion	of the product. The result testifies that According to standard of <i>GB</i> 656 result testifies that the product reaches	the product reaches 6-2010 Limit of radion s class A requirement HJ/T 297-2006 Spent of resolvable Pb product reaches req	nuclides in building materials test. The ats of the standard. accifications for environmental labeling and content of resolvable Cd. Th

Auditor:

Compiler: WM

INSPECTION REPORT

No:18030870	
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io.		Properties	Requirements	Result 4	Determina	
1	Side	The deviation of the average size for each tile (4 sides) from the work size.	±1.0 mm n=10,Ac=0,Re=2	-0.23 nm ~-0.14 mm d=0	Pass	
2	Thickness	each the (+ sides) from the work size.	≤10.0 mm	9.5 mm	Pass	
-	THERMOON			+1.26%~+2.42%	7	
3	Thickness	deviation	±5%, ±0.5 mm	+0.12 mm~+0.23 mm	Pass	
	The control of the control		n=10,Ac=0,Re=2	d=0		
				-0.02%~+0.02%		
4	Straightne	s of sides	±0.2%, ±1.5 mm	-0.09 mm~+0.10 mm	Pass	
			n=10,Ac=0,Re=2	d=0		
				-0.06%~+0.08%		
5	Rectangula	rity	±0.2%, ±2.0 mm	-0.37 mm~+0.50 mm	Pass	
	- Tooling all the		n=10,Ac=0,Re=2	d=0		
				-0.06%~-+0.04%		
6	Center cur	vature	±0,15%, ±2.0 mm	-0.55 mm~+0.35 mm	Pass	
	Contra out value		n=10,Ac=0,Re=2	d=0		
=				-0.09%~+0.04%	-	
7	Edge curv	nture	±0.15%, ±2.0 nun	-0.51 mm 10.25 mm	Pass	
			n=10,Ac=0,Re=2	d=0		
			0.4404	-0.12%~+0.14%		
8	Warpage		=0.15%, ±2.0 mm	-1,06 mm~~+1,23 mm	Pass	
			n=10,Ac=0,Re=2	d=0		
			A minimum of 95% of the tiles shall be			
	0.0		free from visible defects that would impair	No visible defects	_	
9	Surface qu	ality	the appearance of a major area of tiles	d=0	Pass	
			n=10,Ac=0,Re=2			
			Average: E≤0.5	Average: 0,02		
10	Water absi	ention (%)	Individual: E≤0.6	Individual maximum: 0.03	Pass	
	Water absorption (%)		n=5,Ac=0,Re=2	d=0	1 1133	
			Thickness≥7.5 mm, ≥1300			
11	Breaking	trength (N)	Thickness<7.5 mm, ≥700	Average: 2418	Pass	
	Breaking strength (N)		n=7,Ac=0,Re=2	d=0	1 1100	
-			Average: ≥35	Average: 49		
12	Madulus	f rupture (MPa)	Individual: ≥32	Individual minimum: 47	Pass	
12	tyrodurus (rupture (tvir a)	n=7,Ac=0,Re=2	d=0	1 033	
13	Abrasion i	poietanne	Report abrasion class and cycles passed	4 Class (2100 cycl	les)	
15	AUTUSION	CSISTRICC	No crack or crazing after test.	No crack and crazing	100 /	
14	Thermal s	nock resistance	n⇒5,Ac=0,Re=2	d=0	Pass	
			No crazing on glazed surface after test.	No crazing		
15	Crazing re	sistance	n=5,Ac=0,Re=2	d=0	Pass	
			No crazing or peeling after test.	No crazing and peeling		
16	Frost resis	tance	n=10,Ac=0,Rc=1	d=0	Pass	
_			Individual: ≥0.50	Dry the minimum: 0.61	_	
17	Coefficien	t of static friction	n=3,Ac=0,Re=1	d=0	Pass	
			n-5,Ac-0,Re-1 ≥55	94, 95, 94, 95, 95	- 1	
18	Glossiness	of polished tiles	n=5,Ac=0,Re=2	94, 95, 94, 95, 95 d=0	Pass	
19	Mojetow	rearries (mm/m)	Report the result of test	0.05		
20	Moisture expansion (mm/m)			0.03		
40	impact res	istatice	Report average impact resistance after test	5 Class	Ť	
21	Resistance	to staining	Minimum 3 Class	5 Class d=0	Pass	
		Y an apparation saids & -11-11-	n=5,Ac=0,Re=2	d=0 GLA	1	
	Resistance	Low concentration acids & alkalis	GLA, GLB, GLC			
22	to chemica	High concentration acids & alkalis	GHA, GHB, GHC	GHA		
100016	(Class)	Household chemicals and swimming		GA	Pass	
_		pool salts	n=5,Ac=0,Re=2	d=0	0.0	
23	3 Lead and cadmium release (mg/dm²)		Report the result of test	Lead release: 0,0		
21(5/21)	The state of the s	V (No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Cadmium release: 0	1.002	
24	**	Y 1/1	Class A: $I_{Ru} \leq 1.0$, $I_{\gamma} \leq 1.3$	I _{Ra} =0.3	C1	
	Limit of radionuclides		Class B: I _{Ra} ≤1,3, I _y ≤1,9	I,=0.5	Class A	
			Class C: I _y ≤2.8	20 E. 2000.00		
25	1000		≤20	3.9	Pass	
25	content of resolvable Cd (mg/kg)		≤ 5	< 0.05	Pass	

Compiler:

FIRE PERFORMANCE

BE 100% CONFIDENT IN THEPRODUCTS YOU SPECIFY

The Grenfell Tower tragedy in London highlights the importance to specifiers of ensuring the products they specify (from flooring to cladding materials) are fire-resistant in order to conform to the building code relating to fire rating regulations.



TILES DO NOT REQUIRE TESTING AS THEY DO NOT CONTRIBUTE TO FIRE

In New Zealand, fire ratings are required by the Building Code to ensure that if a building is on fire, its construction materials do not significantly increase the spread or intensity of a fire. Tiles, being non-combustible, do not require testing as they do not contribute to fire. Aside from this, tiles by nature do not contain any form of petroleum-based product or wood fibres and are in essence, fire-proof and non toxic!

The building code relating to fire rating regulations and standards became mandatory from April 2013, establishing the list of products belonging to Classes A 'No contribution to fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.

WHAT YOU NEED TO KNOW:

- Because most ceramics are manufactured at over 1000 degrees celsius, they become fire-resistant and therefore an obvious choice for both commercial and residential floor and wall surfaces.
 For example, if a lighted cigarette is dropped on the floor, it will not do any damage to the tile. Even hot kitchen pans or skillets will not scorch or melt the surface of tile, let alone set the tile on fire.
- Tiles are non-combustible so do not catch fire, nor do they give off toxic fumes in the form of VOC's (Volatile Organic Compounds) affecting breathing, when exposed to fire.
- During the manufacture of tiles, any VOC's that may have been present in clays or binders are completely burned away which ensures the final product is inert.







A safe and simple approach with regards to Fire performance in products is to utilise tile for both **Floor** and **Wall** areas. To view latest styles and designs to suit Commercial Projects, see our tile and stone range; https://www.tilewarehouse.co.nz/tile-stone-range/