## **DIVERSO ANTRACITA MATT 600x600**



## Class 1 Building Product Information Requirements Self-Assessment

Product Name: DIVERSO ANTRACITA MATT 600x600

Product Identifier: DIVANTM60

Product Description: A glazed porcelain tile with an R10 matt finish and a water absorption rate of less than 0.50%.

## **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	✓	<b>√</b>	✓	✓
Commercial Kitchen Wall	<b>✓</b>	<b>√</b>	✓	✓
Within 1.5m of a Plumbing Fixture or Fitting	✓	✓	<b>✓</b>	✓

Specifications	
CODE	DIVANTM60
TILE SIZE (mm)	600x600
THICKNESS (mm)	9
SUITABILITY	Floor/Wall
FINISH	Matt
CLASS	PEI Class 2: Light traffic. Suitable for wall use and bathroom floor
	applications.
RECTIFIED	Yes
WEIGHT (kg)	8.00
COEFFICIENT OF FRICTION	0.42
SLIP RATING	R10
TILES PER BOX	4
M2 PER BOX	1.44
PATTERNS/FACES	20
COUNTRY OF ORIGIN	Spain

## 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

Ladriko o bioque, cerámico o de hormigón,	Revestimiento Well Ille	MC, CIT.							
	UNDEFASA PORCELANICO.								
Revoco o enfoscado de mortero de cemento	Revestimiento, Wall tile	C(6.0)							
Concette morte rendering	UNDEFASA PORCELANICO.					C251, O2	C251		192
Elementos de hornigón can superficies lisas	Revestimiento, Wall the								
Smooth suffice concrete stements	UNDEFASA FORCELANCO.								
Faneles o placas de yese laminado o de yeso natural	Revest kniento, Wall Sile			CZSI					
Larminated or natural gypoem plaster boest	UNDEFASA PORCELANCO.			C251					
Deverstimiento existente, cerámica, piedra naturali	Revestimiento, Wall tile				0.00				
	UNDEFASA PORCELANICO.				C181				
Superficies de Madera	Revettmiento, Wall tile	C2,01FE	C255, HI	G255.FI					
Project surfaces.	UNDEFASA PORCELANCO.								
		P	VELOS, FLOC	ORS .					
Forjado o solera de nerrilgón Concinte sisto or floor risto	UNDEFASA PORCELANCO.	(0	i		250	a	C259	c	57
Recrecido cerneridoso sin calefacción rádisente Cerneridicos screed with re- cadare historio	UNDEFASA PORCELANCO.			C2. C28		CZSI		82)	
Recrector cementoso sin calefacción radioante Cementifocas screed with no ladant heating	UNDEFASA PORCELANICO.	a as as		-					
Revestimiento existente, lorrámica, terrais, piedra noturali Lasting diadolng, lomenic, tempo, natural sonali	UNDEFASA PORCELANCO.					can ca		152	

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## MANTENIMIENTO Y LIMPIEZA MAINTENANCE AND CLEANING

## CARACTERÍSTICAS TÉCNICAS TECHNICAL CHARACTERISTICS

### UNDEFASAPORCELÁNICO\*

	20100	25129	33633	30+60	etiveti mole	edied mate	5/0×5/0 2714EW			3040H MF	60x6041 345			HIF I
	15 ×	1011	13,1% 13,2%	5,8" a 23,6"	Stra Strass	23.6"× 23.6"met	D.Fred	HUE's	3,7%	107'w 20.8"	23.6°	10% 62°	23.6°3 40,2°	23,6%
ods A / size A	mto	250,0	333.2	300	600	00000	5900	8000	953	3700,0	60010	297,0	0,000	1910
1600 R / 608 R	U00,0	250,0	3952	600	460	400.0	9900	400.5	2900	5990	terno	1200.0	U00.0	11010
Sapesor / Treckness	10,5	10,0	8.0	5,5	8.5	103	1,0	101.5	8.5	10.5	10,5	10.0	10,5	10.6

Longitud y anchura. Length and width	+/- 0,6%	+/-2mm	ISO 10545-2
Espesor. Thickness	+/- 5%	+/- 0,5mm	ISO 10545-2
Rectitud de lados. Side straightness	*/- 0,5%	+/-1,5mm	ISO 10545-2
Ortogonalidad. Rectangularity	+/- 0,5%	+/- 2mm	ISO 10545-2
Curvatura central respecto a la diagonal. Centra: curvature in relation to the diagonal	+/- 0,5%	+/- 2mm	ISO 10545-2
Curvatura lateral en longitud. Edge curvature in length	+/- 0,5%	+/- 2mm	ISO 10545-2
Alabeo respecto a la diagonal. Warpage in relation to the diagonal.	+/- 0,5%	+/- 2mm	ISO 10545-2
Absorción de agua. Water absorption	≤ 0.5%		ISO 10545-3
Fuerza de rotura. Breaking strength	≥1300 N		ISO 10545-4
Resistencia a la flexión. Bending resistance	≥ 35 N/mm2		ISO 10545-4
Resistencia a la abrasión. Resistance to surface abrasion	según modelo varies with model		ISO 10545-7
Resistencia al choque térmico. Thermal shock resistance	cumple		ISO 10545-9
Resistencia al cuarteo. Craxing resistance	cumple		ISO 10545-11
Resistencia a la helada. Frost resistance	cumple		ISO 10545-12

## CARACTERÍSTICAS TÉCNICAS TECHNICAL CHARACTERISTICS

## CARACTERÍSTICAS TÉCNICAS TECHNICAL CHARACTERISTICS

### UNDEFASAPORCELÁNICO\*

Formato nominal / Nominal size	45x45 brillo	60x60 brillo	59x59 brillo
	17,7"x17,7" gloss	23,6"x23,6" gloss	23,2*x23,2* gloss
lado A / side A	450,0	600,0	590,0
lado B / side B	450,0	600,0	590,0
Espesor / Thickness	8,5	9,0	9,0

Longitud y anchura. Length and width	+/- 0,6%	+/- 2mm	ISO 10545-2
Espesor. Tnickness	+/- 5%	+/- 0,5mm	ISO 10545-2
Rectitud de lados. Side straightness	+/- 0,5%	+/- 1,5mm	ISO 10545-2
Ortogonalidad. Rectangularity	+/- 0,5%	+/- 2mm	ISO 10545-2
Curvatura central respecto a la diagonal. Central curvature in relation to the diagonal	+/- 0,5%	+/- 2mm	ISO 10545-2
Curvatura lateral en longitud. Edge curvature in length	+/- 0,5%	+/- 2mm	ISO 10545-2
Alabeo respecto a la diagonal. Warpage in relation to the diagonal.	+/- 0,5%	+/- 2mm	ISO 10545-2
Absorción de agua. Water absorption	≤ 0.5% < Ev≤ 3%		ISO 10545-3
Fuerza de rotura. Breaking strength	≥ 1100 N		ISO 10545-4
Resistencia a la flexión. Bending resistance	≥ 30 N/mm2		ISO 10545-4
Resistencia a la abrasión. Resistance to surface abrasion	según modelo varies with model		ISO 10545-7
Resistencia al choque térmico. Thermal shock resistance	cumple		ISO 10545-9
Resistencia al cuarteo. Crazing resistance	cumple		ISO 10545-11
Resistencia a la helada. Frost resistance	cumple		ISO 10545-12

### REVESTIMIENTO, WALL TILES

Formato nominal / Nominal size	25×75 9,8" × 29,5"	31,5×100 12,4" × 39,4"				
Tado A / side A	250,0	315,0				
lado B / side B	750,0	1000,0				
Espesor / Thickness	9,0	10				

Longitud y anchura. Length and width	+/- 0,5%	+/- 2mm	ISO 10545-2
Espesor. Thickness	+/-10%	+/- 0,5mm	ISO 10545-2
Rectitud de lados. Side straightness	+/- 0,3%	+/- 1,5mm	ISO 10545-2
Ortogonalidad. Rectangularity	+/- 0,5%	+/- 2mm	ISO 10545-2
Curvatura central respecto a la diagonal. Central curvature in relation to the diagonal	+ 0,5%	+ 2mm - 1,5mm	ISO 10545-2
Curvatura lateral en longitud. Edge curvature in length	+ 0,5% - 0,3%*	+ 2mm - 1,5mm	ISO 10545-2
Alabeo respecto a la diagonal. Warpage in relation to the diagonal.	+/- 0,5%	+/- 2mm	ISO 10545-2
Absorción de agua. Water absorption	Ev > 10%		ISO 10545-3
Fuerza de rotura. Breaking strength	≥600 N		ISO 10545-4
Resistencia a la flexión. Bending resistance	≥12 N/mm2		ISO 10545-4
Resistencia a la abrasión. Resistance to surface abrasion	PND/NPD		ISO 10545-7
Resistencia al choque térmico. Thermal shock resistance	cumple		ISO 10545-9
Resistencia al cuarteo. Crazing resistance	cumple		ISO 10545-11
Resistencia a la helada. Frost resistance	PND		ISO 10545-12

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## CARACTERÍSTICAS TÉCNICAS TECHNICAL CHARACTERISTICS

### PROPIEDADES QUÍMICAS, CHEMICAL SPECIFICATIONS

150 10545-13				
	Cionito Amónico / Ammonium chiosde		*	
		ė.	ė.	A
	Addo ClorNdrico / Hydrochloric acid IW	LA	LA	LA.
	Acido Cilrico / Citric acid 100 g/s			
		LB	LB	1.0
			HA	HA
	Addo Lactico / Lactic acid 5%			
	Hidróxido Potásico / Potassum hydroxide 100 g/l		HB	HB
150 10545-14	Resistencia a las manchas. / Staini			

## RECOMENDACIONES DE USO PAVIMENTOS FLOOR TILE USEAGE RECOMMENDATIONS

ESPACIOS PARA LOS QUE SE ACONSEJA SU USO. SPACES WHERE THEIR USE IS RECOMMENDED

*	Pavimento tránsito peatonal leve. Zona de escaso tránsito con calzado suave. Hoor sas for igni podestrun tra-fito and non-agginación formes.	sl/yes	na	no	no	no
11	Trânsito peatonal moderado con calzado suave.  Moderata pedestrian traffic with normal footsear.	sl/yes	si/yes	no:	no	no
18	Trânsito regular con calzado normal, Avisaga buffic with normal footenar.	sl / yes	al Zyes	sl / yes	no	no
N.	Pavimento de trânsito denso con calzado normal, avinaje traffic with normal botecar.	sl/yes	al/yes	sl / yes	sl / yes	no
٧	Trânsito muy denso con calzado normal. Pavimento tráfico rodado. Very heavy traffic with normal horteaus wiresed traffic paveg	sl/yes	si/yes	si / yes	si / yes	sl / yes

## RECOMENDACIONES DE USO PAVIMENTOS USE GUIDELINES FLOOR TILES

		ANICULO PODICE	OF USO	ANTIQUED. HOLDER	DE USO	APPICALO: MINUSE	
	CONTRACT		1000000		Simbolis		EGISSO
AITANIA IIERSE	191	CASKTONATURAL	361	LEHOK PEARS	N.	PORTOS ORS PW	81.
ACTANIA IB.AYCO	IV.	CASCTONOGAL	Nr.	LEXIALTON GREY	N .	PRESTON BLOC	W.
ACTAPIA OPES	191	CASSTOROSUS.		LEXINGTON PEAK.	N:	PRESTOR PERIA	
	100			LICKINGTON TITAL	1	PRESIDINGRIS	81
ALASAMA SOLDE	191	COLOROLOSS ILANCO	1	LOMAN BEIGE	W	VERTION/STARRA	
ALAXAMA GRE	W	COLONOLOSS HEDRO		LOWATIVECH	W.	PALASTRAN BLACK	
ALAKAMA PERLA	19	COLORWATE IL AVICO	1	LOWARIGHT	N:	RAJASTHAN BONE	
ACAMEDA SLATICO	(V:	COLORWATT NEORO		LEMAN PERCA		DIVASTIGUESANO	
ALAXKOA GRIS	(4)	COUMD SDISK PW		SCHAN PENANA	-	PAPOLANO	
ALAMEDA 10PO	W.	COLISCO SLANCO PW		LEAHUS SCIOL PW		HEING BEIGE	
ALIE: III A GRIS PW		COLPETO GRIS PW		SLANES GRS PW			
ALBORIS ROBLE PAY	19.	COLISCO REARRA PW		MANNATINEDIDE		HENG ONE	
ALHAMBIEA BEIDE		CHENY WYSE				10145 1010	
ALHAMSKA BLANCO		CREMA NATURAL		NAMHATTAN PSZARRA			
ALHAMERA BOJO		CHOCHEDORE		MARRELLA BEIGE			
AROTH ALTON	19	GROOKED ROBLE				SACHA BLANCO	
ARODISAFURLA		SWNO NOW		MARTILLA VISON		SACHA GRS	
ARDESIA ORS		DAVEDNEGOE:		MARRILLA PERLA			
ARGESIA PIZARRA		DAYTONGREY		METROPÓLISISSE		SKANOTELANCO	
ATICA BEIDE		DENVERSENDETW		HETROPOUS BLAYCO		SCANDI NATURAL	
ATCABONE		DENVER DIRECTE		HETROPOLISIES	(M)		
STICK PEARL	(V)	DESWER DAIS PW		METHOPOLIS PIZARRA		TROHWING MARFIL MATT	
BAU STONE BEFOR		DEWER PERLAPIW		THAVA REDIC PW		PWR	
BALIS TONE GIRE	100	DUDNO GRS		HAVA GRIS PIK		TACHWAN PERLAWART	100
	0.0			HORWAND/E BEIGE		YERRAZZO BOIGE	10
	W			HOWANDE GREE		TERRATEO RIAMED	20.
	(V)			HORWANDE PEARL			11
							N.
BOAL BOOK PW							W .
BOAL GRIS PW	101		W	OLD WE SEIGH	26.		N.
	100	ETRUSCAN BLOC	10		N.	TRENTING GRIS PW	11
	19		10	OLD VICTORIA	167	TRENTINO MARIES PW	10
CAMPANIA RLANCO	100	ATRIBICAN NORY	10	OLD VIC PEARSA		THENTING BORLA PW	11
	180			OLIMPIA SEIGE PW		LIPPOALA NAPURAL	N
	10				W	LIPPSALA NICHOLO	W
			100		N.		150
	10		1		6	VEGA BEIDE PW VEISA ISHIS PW	21
	TW.	GEO REGIS				VISSOS PW	91
CANADIA WOOM	100	deti Pema	W.	OFTAWA TITALS	1		
	W.	SALLERY REARIN			N.	VERMONT CENEZA	10
	10	HERITAGE SAFETIMAL TWO W	W	MIACY REGE	10	VERMONE GRIS	N.
	(W)		10	PALACE GIRS	100	VEHMONETOPO	
	Toy.	HERITAGE MOBILE PWIN	W		-	VILLAGE BEIGE PW	81
CAPACE BEKEEPIN	10					VILLAGE PEREARW	11
CAPITOL BLANCO PW	IV.				N.	ONS BOOLPW	11
	17		10		7	CHIS GRS IW	31
CARTOLORIS PW	TW.	FIRMA	te.		N.	YUKON BUIDE	47
CAPTICE PORCETOR	100	LAWERIACE	100		2	YUKOH GREY	
CAPVED BOOK	W	PNAKOUEL	N.	PORTORISLO GRIS	N .	YUKON PEAR.	
CARVED BLANCO CARVED ORIS.	IV.	LENON BLACK	10	POSTOBELLO PERLA POSTOBELLO TOPO	N N		

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## FIRE PERFORMANCE

# **BE 100% CONFIDENT IN THE**PRODUCTS 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/