



Extra20

Porcelain Stoneware

FLAT ROOF BALCONY ROOF TERRACE DISPLAY AREA

castle
COMPOSITES

Castle Porcelain Paving



Castle Porcelain Tiles are manufactured and designed to replicate the aesthetics of natural stone, wood and marble without the maintenance issues associated with these products.

Our Porcelain products are manufactured using the finest materials, machinery and techniques to ensure all our tiles are of the highest quality. As our porcelain products are almost completely non porous they are very easy to clean and require little maintenance. All our surface finishes have been tested for slip resistance giving excellent results.

Extra20 tiles are single piece porcelain slabs, perfectly squared and rectified with 20 mm thickness. Suitable for outdoor use with a variety of installation methods. We also offer a range of Extra 20 edge, corner and trims to accommodate most applications.

Indoor10 is our range of 10mm thick porcelain tiles suitable for use indoors on both floors and walls. We have a wide variety of colours and sizes available in the Indoor10 range meaning you can match your indoor floor to your outdoor patio or terrace.



Porcelain vs Ceramic

The main differences between ceramic and porcelain tiles are as follows. Porcelain tiles are manufactured from far more refined and purified materials meaning they are stronger, more durable and less porous than ceramic.

Porcelain tiles are coloured all the way through rather than having only a top surface of colour. This means that the porcelain tiles are more stain resistant than ceramic.

Lastly, ceramic tiles cannot be used in outdoor applications. They are not strong or durable enough for outdoor application and will simply crack and break up during freeze conditions. As porcelain is manufactured with fine materials that are fired and pressed, it produces a very strong and dense product that is frost resistant and durable enough for outdoor and indoor applications.



Castle Porcelain Paving



Porcelain vs Natural Stone

Natural stone offers a varied and aesthetically pleasing surface finish. However it does come with some drawbacks in comparison to our porcelain pavers.

We have created several porcelain pavers that mimic the variation in colour and texture of natural stone but without the same drawbacks.

Natural stone being a natural material has varied levels of porosity. Meaning that each stone will absorb different levels of moisture and may need cleaning or sealing. As our range of porcelain tiles are virtually non porous only basic sweeping and cleaning is required.

In most cases porcelain is lighter per m2 than natural stone. This offers time and health and safety benefits when laying the product.



Porcelain vs Concrete

Although most concrete pavers and tiles are suitable for outdoor applications there are several advantages to be considered with Castle Porcelain Paving.

Firstly very few concrete products can be laid both indoors and outdoors. With our porcelain products you can match the flooring on your indoor and outdoor areas for maximum effect.

As concrete is a more porous material than porcelain our tiles will be far less susceptible to staining and algae growth. As our porcelain tiles are virtually non porous they need little or no maintenance

Although some concrete pavers are pressed or reinforced for additional strength they are unlikely to be as durable, strong or as slip resistant as Castle Porcelain Paving.

Porcelain tiles are also considerably lighter per m2 than most concrete pavers.



Porcelain vs Wooden Decking

Wood decking is very popular however it can become very slippery in wet conditions and in most cases requires regular cleaning and staining which can be costly and time consuming.

As our porcelain tiles are slip resistance tested you can be sure that you will have a suitable walking surface in both wet and dry conditions. Full details on test results can be found within.

Our porcelain tiles have a porosity of less than 0.1% meaning they are very resistant to staining from dirt debris, chemicals and most household goods. Due to the very low porosity they will never need to be sealed.

We have several surface finishes that offer a unique wood look without the maintenance of wood decking.

Extra 20



Sense - Grey Maculate



Sense - Charcoal Style



Sense - City Grey



Sense - Warm Sand



Sense - Grey Marble



Sense - Ivory Beach



Sense - Beige Marble



Spirit - Flint



Natural - Quartz Stone



Natural - Golden Stone



Natural - Grey Stone



Natural - Slate Stone



Travertine - Flax



Travertine - Smoky



Wildwood - Ash



Wildwood - Rove



Charm - Black Diamond



Spirit - Sable



Granite - Moonshine



Wildwood - Oak

Castle Porcelain Paving

Extra 20

Extra 20 Porcelain Stoneware are single piece porcelain slabs at 20mm thick. Manufactured using the finest materials, techniques and machinery these porcelain slabs are extremely hard wearing, dimensionally accurate, strong, light weight and aesthetically pleasing. We also offer a range of edges, corners and trims to accommodate most applications.

Extra 20 offers several installation methods depending on user requirements. Raised installation using our range of support pedestals can be used outdoors on balconies, flat roofs and any other area that requires a gap for drainage or access under the paving.

Installation loose laid onto gravel is also possible on decorative and low trafficked areas. This method offers quick installation where slabs can be removed at any time.

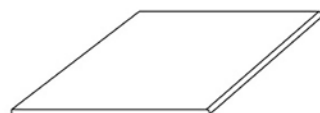
High trafficked areas and areas where vehicles may be present will require installation using an external grade, flexible, fully bedded adhesive. When using this method the gaps can also be grouted if required. Bedding the tiles in external adhesive is not suitable for use on flat roofs or balconies as it may not be compatible with the waterproofing membrane.

We offer a range of internal and external adhesives and grouts that are suitable for use with our range of tiles.

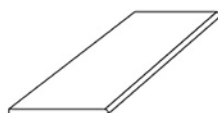
Surface Finish	Colour	600 x 600	450 x 900	750 x 750	600 x 1200	300 x 1200
Sense	Grey Maculate	*				
Sense	Charcoal Style	*		*	*	
Sense	City Grey	*			*	
Sense	Warm Sand	*				
Sense	Grey Marble	*			*	
Sense	Ivory Beach	*				
Sense	Beige Marble	*				*
Spirit	Flint	*				
Natural	Quartz Stone	*				
Natural	Golden Stone	*			*	
Natural	Grey Stone	*			*	
Natural	Slate Stone	*	*			
Travertine	Flax	*				
Travertine	Smoky	*				
Wildwood	Ash	*				*
Wildwood	Rove	*				*
Wildwood	Oak	*				*
Charm	Black Diamond	*		*		
Feel	Sable	*				
Granite	Moonshine	*				

Extra 20

ROUND



60x60 cm*
75x75 cm**



30x 60 cm*
24x75 cm**
30x120 cm***

CURVE

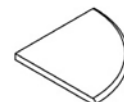


Corner



60x60 cm*
75x75 cm**

Corner



30x30 cm*
24x24 cm**

XGRIP



Internal corner

External corner



30x60 cm*
24x75 cm**
30x120 cm***

XSTEP



Internal corner

External corner



30x60 cm*
24,5x75 cm**
30x120 cm***

ALZATA



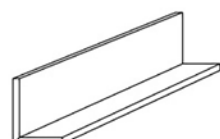
15x60 cm*
15x75 cm**
15x120 cm***

STAIR



20x60 cm*
20x75 cm**

COMBO



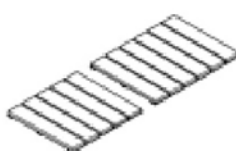
15x20x60 cm*
15x20x75 cm**

TOP



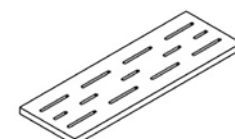
30x60 cm*
24x75 cm**
30x120 cm***

FLEXI

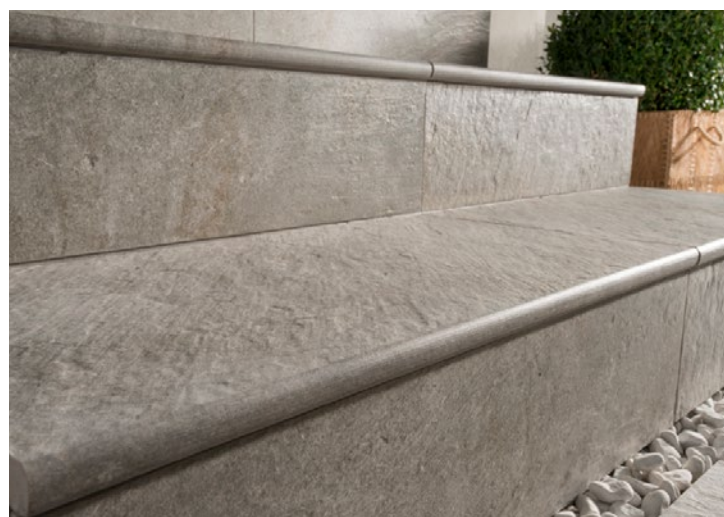


25x60*

















STRIPE



20x60*



Extra 20

	TECHNICAL CHARACTERISTIC CARACTERISTIQUE TECHNIQUE	NORMA NORMS NORME NORM	AVERAGE VALUE * VALEUR * MOYEN DURCHSCHNITTSWERT *		
	Dimensione - Size Dimension - Abmessungen -	ISO 10545-2	Conforme - In accordance Conforme - Erfüllt		
	Assorbimento d'acqua* - Water absorption* Absorption d'eau* - Wasseraufnahme* -	ISO 10545-3	0,05%		
		ASTM C373-88 (2006) 	Conforme - In accordance Conforme - Erfüllt		
	Resistenza alla flessione* - Bending strength* Résistance à la flexion* - Biegezugfestigkeit*	ISO 10545-4	Non applicabile a piastrelle con una forza di rottura Not applicable to tiles with a breaking strenght N'est pas applicable aux carreaux avec une charge de rupture Nicht anwendbar bei Fliesen mit einer Bruchlast ≥ 3000 N ≥ 3000 N ≥ 3000 N ≥ 3000 N		
	Sforzo di rottura (S) - Breaking strength Charge de rupture - Bruchlast -	ISO 10545-4	> 10.000 N		
	Resistenza all'abrasione profonda* - Deep scratch resistance* Résistance à l'abrasion profonde* - Widerstand gegen Tiefenverschleiß*	ISO 10545-6	≤ 145 mm³		
	Coefficiente di dilatazione termica lineare* - Thermal linear expansion coefficient* Coefficient de dilatation thermique linéaire* - Koeffizient der linearen thermischen Dehnung*	ISO 10545-8	≈ 7 (10 ⁻⁴ °C ⁻¹)		
	Resistenza agli sbalzi termici* - Thermal shock resistance* Résistance aux écarts de température* - Temperaturwechsel Beständigkeit*	ISO 10545-9	Resistente - Resistant Résistante - Beständig		
	Dilatazione all'umidità* - Expansion in humidity* Dilatation à l'humidité* - Feuchtigkeitsausdehnung*	ISO 10545-10	≤ 0,1 (mm/m)		
	Resistenza al gelo* - Frost resistance* Résistance au gel* - Frostbeständigkeit*	ISO 10545-12	Resistente - Resistant Résistante - Beständig		
	Resistenza all'attacco chimico ● - Resistance to chemical attack ● Résistance à l'attaque chimique ● - Beständigkeit gegen Chemikalien ●	ISO 10545-13	Resistente - Resistant Résistante - Beständig - Стойкий		
	Carico statico - Static load Charge statique - Statische Last	EN 12825		60x60-75x75	60x120
			Centro - Centre Au centre - Mitte	KN>8,0	KN>5,0
			Centro lato - Side centre Au centre latéralement - Mitte Seite	KN>5,5	KN>4,0
			Diagonale - Diagonal En diagonale - Diagonal	KN>8,0	KN>7,0
	Classe di carico di rottura*** - Breaking load class*** Classe de charge de rupture*** - Bruchlastklasse***	EN 1339	U11***		
			T11***		
	Resistenza alle macchie* - Resistance to stains* Résistance aux taches* - Fleckenbeständigkeit*	ISO 10545-14	Pulibile - Cleanable Nettoyable - Leicht zu reinigen		
	Resistenza allo scivolamento** - Slip resistance** Résistance au glissement** - Rutschhemmende Eigenschaft**	DIN 51130-51097		R11 A•B•C Other colours	
		ASTM C1028	C.O.F. WET	≥ 0,70	
			C.O.F. DRY	≥ 0,70	
				▲ DCOF	Conforme - In accordance Conforme - Erfüllt
	Spessore nominale - Nominal Thickness Épaisseur nominal - Nominalstärke		20 mm		

If the application of the 20mm slabs foresees the porcelain product used in structural installations, the project engineer and/or customer must carefully assess the project requirements with regard to the technical specifications of the slabs. To prevent the risk of damage or injury, the manufacturer recommends: With regard to a raised floor installation a porcelain slab may fracture on impact if a heavy object falls on it from any significant height. Therefore the manufacturer recommends to check the specific intended use before starting the installation. In certain conditions, reinforcing must be applied on the back of the slabs (double glass fibre net or a galvanized steel sheet) supplied and applied by the manufacturer; With reference to any dry installation system of flooring above the ground level, the manufacturer recommends to comply with local regulations and conditions of use with regard to wind-load, load bearing, seismic events, etc. Failure to comply with these recommendations may lead to improper use of the product and could cause serious damage or injury.

Outdoor pavings installed unglued above the ground level are subject to the action of the wind, with the risk, in some cases, of becoming airborne. The manufacturer recommends to require the assistance of a qualified professional in order to check the suitability of the installation system above the ground adopted, in accordance with the local laws and regulations and the conditions of use. Failure to do so could result in serious injury or property damage. A porcelain slab installed on a raised pedestal system may fracture on impact if a heavy object is dropped onto it from a height, with a risk of injury to anyone standing or walking on such slab. Failure to adhere to the manufacturer's instructions for installation of slabs on raised pedestal systems may result in serious injury.

DD PEDESTALS ADJUSTABLE PEDESTALS



DD Pedestals are the solution if you want a beautiful paved terrace that is free draining, compatible with waterproofing membranes, easy to install and low cost.

More roof and balcony designs incorporate a completely flat upper surface in order to utilise them more effectively as leisure areas. Useful, practical areas can be created for leisure or services and maintenance, which would previously have been left as exposed waterproofing membrane. Not only does this help protect potentially vulnerable areas, but it increases the yield of the building footprint.

DD Pedestals are supplied as standard with a fixed head piece. If slope correction is required its simply a case of ordering some slope correction head pieces that clip on top securely and easily.



DD Pedestal Heights:

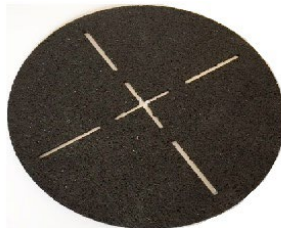
Model	Height Adjustment
DDP01	30-45mm
DDP02	45-70mm
DDP03	70-120mm
DDP04	120-220mm
DDP05	220-320mm



Paving Supports



Support



Levelling Disc



Stackable plastic support pads are manufactured from injection moulded high density polypropylene. They are available in three standard sizes, 10mm, 12mm and 15mm thick.

They are designed to stack on top of one another, where applicators wish to increase the height of the cavity at intervals to work around gutter and service pipes, for example. Although lightweight, they are very tough, with a weight tolerance of 400kg per support pad.

ASLON Paving Support Pads are a versatile low cost option for supporting paving on flat roofs and balconies. Manufactured from recycled rubber granulate they are also one of the very few environmentally friendly options available. At only 10mm thick ASLON pads are ideal for areas that have low threshold issues.

Indoor 10



Wildwood - Oak

Castle Indoor 10 Porcelain Tiles are of the highest quality and suitable for internal applications. The Indoor 10 range allows for matching or contrasting designs when used alongside our outdoor Extra20 Porcelain Paving. By using Extra 20 and Indoor 10 you can have matching indoor and outdoor flooring that is very low maintenance, provides excellent slip resistance and most importantly gives unrivalled aesthetics.

Indoor 10 can be installed in almost any room as they have a very low porosity and achieve incredible wear resistance test results.

The Indoor 10 range is designed to be laid on traditional cement/mortar adhesive. Indoor 10 can also be grouted using a suitable floor grout. Suitable adhesive and grout can be supplied with your order if required.

Almost all colours in the Extra20 range are available in Indoor 10. Please see our size chart for more information on what dimensions are available in each colour.

Indoor 10 have a smoother and less slip resistant surface finish than Extra20 as they are designed to be used indoors.



Indoor 10

Surface Finish	Colour	300x300	300x600	600x600	600x1200	450x450	750x750	200x1200	300x1200
Sense	Grey Maculate	*	*	*	*				
Sense	Charcoal Style		*	*					
Sense	City Grey		*	*					
Sense	Warm Sand		*	*					
Sense	Ivory Beach		*	*					
Sense	Beige Marble		*	*					
Spirit	Flint								
Natural	Quartz Stone	*	*	*		*			
Natural	Golden Stone	*	*	*		*			
Natural	Grey Stone	*	*	*		*			
Natural	Slate Stone		*	*					
Travertine	Flax		*	*	*		*		
Travertine	Smoky		*	*	*		*		
Wildwood	Ash							*	*
Wildwood	Rove							*	*
Wildwood	Oak							*	*





When bonding to an existing floor or concrete base adhesive and grout can be used. We stock adhesive and grout that is suitable for both indoor and outdoor applications.

Note: When laying on a flat roof or balcony we DO NOT recommend this installation method as it may damage your waterproofing. We recommend the use of support pedestals when laying on waterproofing membranes. Please call for more information if you are unsure as to what installation method is best for your project.



Keraquick Adhesive

Suitable for indoor and outdoor applications. Fast setting polymer modified flexible S1 adhesive for fixing all types of ceramic, porcelain & glass tiles, mosaics and non-moisture sensitive natural stone to internal and external walls and floors. Suitable for plywood overlaid substrates.

Supplied in 20kg Bags



Ultracolor Plus Grout

Fast setting and drying flexible polymer modified anti efflorescence grout for joints from 2-20 mm. Water-repellent with DropEffect and anti-mould with BioBlock technology. Suitable for interior and exterior wall and floor grouting of ceramic tiles, porcelain, terracotta, stone material, glass and marble mosaics.

Colours: Cement Grey & Beige (other colours available upon request)

Supplied In 5kg Bags



Grout Application Gun

600ml Combi Gun that can be used for neat application of grout. Using a gun to apply the grout to the joints will reduce the amount of cleaning required after application.

This gun is especially useful when grouting our outdoor tiles. As the outdoor tile surface finish is rougher for slip resistance they can take a little longer to wash off after grouting.



Sample Tiles

As photographs cannot always show the true colour and texture of our products we are always happy to supply samples.

To order samples please contact us via phone or email to arrange delivery.

Samples tiles are sent via 24 hour courier to keep delivery time to a minimum.

Samples are free of charge for UK mainland addresses for the first request.

Delivery

Our products are delivered stacked on wooden pallets.

Delivery is free of charge for orders of full pallets or more being delivered to UK mainland addresses.

Deliveries are made by curtain sided truck with tail lift if required.

Deliveries can be made in as little as 24 hours however the standard delivery time is 2-3 days.



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