

KETLEY QUARRY TILES FOR FLOORING

Standard BS EN 14411 : 2012



Ketley Quarry Tiles are manufactured from the same clay, using the same processes as Ketley Bricks and Pavers and Dreadnought Roof Tiles to deliver the same technical characteristics of very low water absorption, very high strength and unrivalled frost resistance.

PROPERTIES	BS EN 14411 GROUP A1b REQUIREMENT	TYPICAL VALUES
Dimensions and surface quality		
Length x Width 215mm x 102.5mm 215mm x 65mm 100mm x 100mm 150mm x 150mm	Average tolerance $\pm 2\%$ to an individual maximum of $\pm 4\text{mm}$	length 215mm $\pm 2.5\text{mm}$ width 102.5mm $\pm 1.5\text{mm}$
Thickness 18mm	Average tolerance is $\pm 10\%$	$\pm 1\text{mm}$ tolerance
Straightness of sides	within $\pm 0.6\%$	0.2%
Rectangularity	within $\pm 1\%$	0.2%
Surface flatness	Centre curvature $\pm 1.5\%$ Edge curvature $\pm 1.5\%$ Warpage $\pm 1.5\%$	Centre curvature $\pm 1.5\text{mm}$ Edge curvature $\pm 1\text{mm}$ Warpage $\pm 1.5\text{mm}$
Physical properties		
Water absorption	0.5 < 3%	1.50%
Breaking strength	Min 1100N	2995N
Resistance to deep abrasion	Max 275mm ³	106mm ³
Frost resistance	Value to be stated	No damage after 100 cycles
Slip resistance	Pendulum test results exceeding 36 indicate low slip potential	Dry value av of 63 Wet value av of 55
	Inclined platform in shod conditions	Category R11 which indicates that they are considered not to be slippery in wet or greasy conditions.
	Inclined platform in wet barefoot conditions	Category C which is the highest rating for slip resistance.
Bond strength	C2 Cementitious adhesives Reaction resin adhesives Mortar	$>1.0 \text{ N/mm}^2$ $>2.0 \text{ N/mm}^2$ 0.15 N/mm^2
Moisture expansion	No requirement	Negligible
Reaction to fire	Value to be stated	A1
Chemical properties		
Resistance to staining	Minimum requirement 3	Paste stain 5 Chemical/oxyciding stain 4 Film stain 3