

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
<u>Dimensions and surface quality</u>		
Length x Width 215mm x 102.5mm 215mm x 65mm 150mm x 150mm	Average tolerance $\pm 2\%$ to an individual maximum of $\pm 4\text{mm}$	within $\pm 2\%$
Thickness 18mm	Average tolerance is $\pm 10\%$	within $\pm 5.5\%$
Straightness of sides	within $\pm 0.6\%$	within 0.2%
Rectangularity	within $\pm 1\%$	within 0.2%
Surface flatness	Centre curvature $\pm 1.5\%$	Centre curvature $\pm 0.7\%$
	Edge curvature $\pm 1.5\%$	Edge curvature $\pm 1.0\%$
	Warpage $\pm 1.5\%$	Warpage $\pm 0.7\%$
<u>Physical properties</u>		
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 96 Wet value av of 58 on slider 55 for Staffs Blue
	Inclined platform in shod conditions	Dry value av of 63 Wet value av of 55 on slider 96 for Brown Brindle 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	$>1.0 \text{ N/mm}^2$
	Reaction resin adhesives	$>2.0 \text{ N/mm}^2$
	Mortar	0.15 N/mm^2
Moisture expansion	No requirement	Negligible
Reaction to fire	Value to be stated	A1
<u>Chemical properties</u>		
Resistance to staining	Minimum requirement 3	Paste stain 5 Chemical/oxydising stain 4 Film stain 3