

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 | Average tolerance $\pm 2\%$ to an individual maximum of $\pm 4\text{mm}$ | length 215mm $\pm 2.5\text{mm}$ width 102.5mm $\pm 1.5\text{mm}$ |
| 215mm x 102.5mm | | |
| 215mm x 65mm | | |
| 100mm x 100mm | | |
| 150mm x 150mm | | |
| Thickness | Average tolerance is $\pm 10\%$ | $\pm 1\text{mm}$ tolerance |
| 18mm | | |
| 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 96 Wet value av of 58 on slider 55 for Staffs Blue Dry value av of 63 Wet value av of 55 on slider 96 for Brown Brindle |
| | 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 | $>1.0 \text{ N/mm}^2$ $>2.0 \text{ N/mm}^2$ 0.15N/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/oxydising stain 4 Film stain 3 |
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