

# Paving Tile Technical Properties 1

- **Frost resistant** : Suitable for outdoor use
- **Chemical resistant** : Highly resistant to acids and alkalis
- **Stain Resistant** : Highly Resistant - Class 5
- **Durable** : Extremely high abrasion resistance
- **Slip resistant** : Ranging up to R 13
- **Strong** : Compressive strength in excess of 140N/mm<sup>2</sup>  
Modulus of rupture exceeding 23N/mm<sup>2</sup>  
Crushing strength exceeding 2500 KN

Technical property	ISO 10545 Requirement	Ruabon Tiles Typical value
Water absorption ISO 10545 - 3	AI ≤ 3%	~ 2.4%
Modulus of rupture ISO 10545 - 4	Group AI Av ≥ 23N/mm <sup>2</sup>	Group AI Av > 23N/mm <sup>2</sup>
Abrasion resistance ISO 10545 - 6	Group AI < 275mm <sup>3</sup>	100mm <sup>3</sup>
Scratch hardness EN 101	No requirement	>7 Moh's scale
Moisture expansion ISO 10545 - 10	Not finalised	Negligible
Linear thermal expansion ISO 10545 - 8 & En 103	No requirement	<5x10 <sup>-6</sup> ° C
Thermal conductivity	No requirement	1wm -1 ° C
Thermal shock resistance ISO 10545 - 9 & EN 104	Required	Pass
Frost resistance ISO 10545 - 12	100 freeze thaw cycles	100 cycles
Chemical resistance ISO 10545 - 13		
(a) Household chemicals & pool cleaning salts – Sodium Hypochlorite & Ammonium Chloride	Manufacturer to state classification	Class UA (no visible effect)
(b) Low concentration acids & alkalis – Hydrochloric Acid 3% v/v & Citric Acid sol.	Manufacturer to state classification	Class ULA (no visible effect)
(c) High concentration acids & alkalis – Hydrochloric Acid 18% v/v, Lactic Acid 5% v/v & Potassium Hydroxide sol.	Manufacturer to state classification	Class UHA (no visible effect)
Slip resistance ISO 10545 - 14	Stated co-efficient of friction	R11 – R13 . Pendulum SRV's ranging from 47 to 65 See Technical Data Sheet No. 6 for full details
Staining resistance Class 1 –5	Manufacturer to state classification 1 = not resistant 5 = highly resistant	Class 5

## Technical Properties of extruded paving tiles:

All Ruabon paving tiles are manufactured to achieve technical properties which comply with the highest requirements of BS EN 14411 Group A1 and are suitable for internal or external use. They are further tested in compliance with applicable clay paving surfaces requirements.

It can be seen from the table opposite that Ruabon paving tiles meet the more stringent, higher classification of the new ISO standards. All products are required to undergo rigorous audit tests which are carried out at the laboratories of British Ceramic Research..

## Technical Support:

Our Technical Services Department provides a full support service including advice and fixing specifications. Technical Data Sheets covering every aspect of quarry tiles from planning and preparation, through to maintenance and aftercare, can be freely viewed and downloaded from our website. Hard copies are available on request from our sales department.

Request forms are also available on our website ensuring a speedy response for fixing specifications, samples requests and literature requests.

# Paving Tile Technical Properties 2

## PACKAGING SPECIFICATIONS

- All Paving tiles are supplied boxed and shrink wrapped on wooden pallets
- For convenient loading the weight of each pallet is approximately 800 KG (0.8 Tonnes)
- Each pallet contains 18 square metres of product

## PACKAGING FORMATS

Product	Tiles per box	Boxes per pallet	Tiles per pallet	Weight per pallet KG	Weight per box KG	Weight per tile KG	Tiles per SQ Metre	Sq. metres per pallet
194 x 94 x 20	20	45	900	737.6	16.06	0.79	50	18
194 x 194 x20	10	45	450	803.4	17.5	1.74	25	18
94 x 94 x20	40	45	1800	754.5	16.43	0.40	100	18