

# Clay Pavers - Technical Properties

- **Frost resistant:** Ruabon pavers are tested and proven to withstand 100 freeze/thaw cycles without damage.
- **Strength:** Exceptional compressive strength and impact resistance together with transverse strength far in excess of Class T4 requirements make ruabon pavers the natural choice for both vehicular and pedestrian applications.
- **Safety:** Superb slip and skid resistance from Ruabon drag- face pavers provide the specifier with total confidence for both pedestrian and vehicle usage.
- **Durability:** Extremely high abrasion resistance ensures that Ruabon paver installations provide extremely long design life.
- **Low Maintenance:** The colour of Ruabon pavers will not fade due to weathering and their low absorbency means high resistance to staining, oils etc.

| Technical property       | BS EN 1344 Requirement   | Ruabon Clay Pavers<br>Typical value        |
|--------------------------|--|--|
| Dimensional Tolerances   | Max Deviation $0.4 \sqrt{d}$ (d = target dimension)  | Less than $0.1\sqrt{d}$ for all dimensions |
| Range                    | Class R0 = No range<br>Class R1 = Max. $0.6 \sqrt{d}$  | Less than $0.2\sqrt{d}$ for all dimensions |
| Freeze/Thaw Resistance   | Class FP0 = No determination<br>Class FP100 = Frost resistant  | Class FP100—Frost resistant                |
| Transverse Breaking Load | Class T0 = No declaration<br>Class T1 = 30N/mm mean, 15N/mm min.<br>Class T2 = 30N/mm mean, 24N/mm min.<br>Class T3 = 80N/mm mean, 50N/mm min.<br>Class T4 = 830N/mm mean, 64N/mm min. | Class T4= 141—171N/mm mean, 100N/mm min    |
| Slip/Skid Resistance     | Class U0 = No determination<br>Class U1 = 35 SRV<br>Class U2 = 45 SRV<br>Class U3 = 55 SRV   | Class U3 - 72 SRV                          |
| Abrasion Resistance      | Mean abraded volume not greater than:<br>Class A1 = 2100mm <sup>2</sup><br>Class A2 = 1100mm <sup>2</sup><br>Class A3= 450mm <sup>2</sup>  | Class A3 = 175mm                           |
| Acid resistance          | Class C = Not more than 7% lost  | Class C = < 0.5%                           |
| Fire Performance         | Class A1   | Class A1                                   |
| Emission Of Asbestos     | No Asbestos Content  | Complies                                   |
| Emission Of Formaldehyde | No Formaldehyde Content  | Complies                                   |
| Water Absorption         | None Specified   | 4 - 5%                                     |

The latest European standard BS EN 1344:2002 Clay Pavers - Requirements and Test Methods was approved by CEN in December 2001 and issued in March 2002 as an updated and more stringent replacement for the previous British Standard BS 6677 which is now withdrawn.

The table above details the requirements of the standard together with actual Ruabon values obtained by independent testing at the laboratories of British Ceramic Research.

Ruabon Clay Pavers are manufactured under a quality system registered to BS EN ISO 9001:2000 which is audited twice annually by The British Standards Institution.