

# bricks | product standard



This page explains the data shown in the brick information tables.

The harmonisation of the European market for building materials and the requirements of the Construction Products Directive affect all UK specifiers, users and manufacturers alike. The national product standard for clay facing bricks is BS EN 771-1. This standard superseded BS3921 in April 2006 and, due to the differing test methods employed, it is imperative that this product data is only used in conjunction with BS EN 1996: Design of Masonry Structures.

## 1 Product

Name of product.

## 2 Durability

There are three categories for durability:

F0 – suitable for passive exposure

F1 – suitable for moderate exposure

F2 – suitable for severe exposure

## 3 Active Soluble Salts

There are three categories for soluble salts:

S0 - suitable for completely dry applications

S1 - suitable for normal exposure applications

S2 - suitable for prolonged saturation applications

## 4 Compressive Strength

A test method has been developed involving surface grinding and dry crushing of the brick. Most brick types will show an apparent increase in compressive strength compared to results prior to 2006.

## 5 Water Absorption

A test method has been developed involving a 24 hour soak in water.

Some brick types may show an apparent change in water absorption with this test method. The five hour boil test is still used for Engineering and DPC (damp proof course) bricks.

	1	2	3	4	5	6	7	8	9	10	11
	Durability BS EN771-1	Active Soluble Salts BS EN771-1	Compressive Strength (≥ N/mm <sup>2</sup> ) BS EN771-1	Water Absorption (≤ %) BS EN771-1	Size Tolerances Mean & Range BS EN771-1	Configuration and % Voids	Type & Texture	Special Shaped Bricks	Factory and Location	Product Code	
Capital Brown Multi Stock	F2	S2	25	14	Tm Rm	Single Frog 8-13	Stock Sandfaced	All shapes available	Laybrook, West Sussex	0714	
Royston Brown	F2	S2	60	10	T2 R1	Vertically Perforated 20-25	Wirecut Dragfaced	Limited shapes available	Nostell, Wakefield	0513	
Bracken Brown Rustic	F2	S2	70	9	T2 R1	Vertically Perforated 20-25	Wirecut Dragfaced	All shapes available	Ravenhead, Lancashire	3505	
Tudor Brown Blend	F2	S2	75	7	T2 R1	Vertically Perforated 19-24	Wirecut Smooth	All shapes available	Chesterton, Newcastle-under-Lyme	2962	
Tradesman™ Heather	F2	S2	65	9	T2 R1	Vertically Perforated 25-30	Wirecut Sandfaced	Limited shapes available	Atlas, Walsall	0381	
Tradesman™ Sandfaced	F2	S2	65	9	T2 R1	Vertically Perforated 25-30	Wirecut Sandfaced	Limited shapes available	Atlas, Walsall	0384	



## 6 Size Tolerance

The three brick dimensions of length, width and height must be accurately measured along their mid point to establish compliance with the new standard.

### Mean Value

10 individual bricks are measured and the mean value for the size is calculated. The mean value for the size is calculated. The mean categories (T) under BS EN 771-1 for bricks with a nominal size of 215mm in length are:

**T1 (+/- 6mm)** if the mean of the 10 bricks falls between a minimum of 209mm and a maximum of 221mm.

**T2 (+/- 4mm)** if the mean of the 10 bricks falls between a minimum of 211mm and a maximum of 219mm.

**Tm** - Manufacturer's declaration (may be wider or narrower than above).

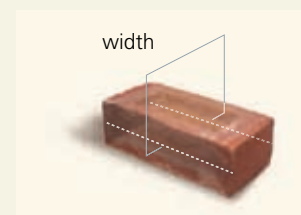
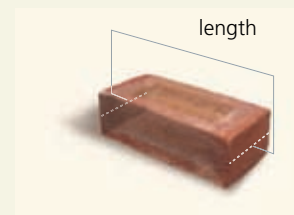
### Range Value (optional measurement)

10 individual bricks are measured. The range categories (R) under BS EN 771-1 for bricks with a nominal size of 215mm in length are:

**R1** if the difference between the smallest and largest brick in the batch of 10 is no more than 9mm.

**R2** if the difference between the smallest and largest brick in the batch of 10 is no more than 4mm.

**Rm** - Manufacturer's declaration (may be wider or narrower than above).



height (mean of both directions)



A British Standard Publicly Available Specification, PAS70, provides a practical method of on-site size tolerance determination and also a site panel procedure for aesthetic acceptance purposes.

## 7 Configuration & %Voids

This describes the direction of any perforations or type of frog and states these as a percentage of the total brick volume.

## 8 Type and Texture

This defines the type of brick e.g. stock and indicates the texture of the face e.g. smooth, sanded.

## 9 Special Shaped Bricks

This shows the range of special shaped bricks available. Your local Ibstock Sales Office will be able to advise further.

## 10 Factory and Location

The name of the factory where the product is made and the nearest town / city or county.

## 11 Product Code

The unique Ibstock code to clearly identify the product.