

2. Construction science principles

Worksheet 12: Material properties (learner)

A material that is used as a structural element, for example a load-bearing frame, must be capable of maintaining certain properties.

To find out what these properties are for a particular material, you should refer to technical data sheets produced by the manufacturer of the material.

An architect has specified the following brick for the outside skin of a timber-framed house:

Ibstock, Priory Red, Code 0584

<https://www.ibstockbrick.co.uk/brick-selector/?p=A0584A>

Download and read the technical data sheet and answer the following questions:

1. What is the absorption rate for the brick (% weight)?
2. What is the compressive strength of the brick in N/mm²?
3. What is the soluble salts rate?