



What to look for in a fire test classification report?

The independent institute elected to carry out the fire testing will issue a classification report along with all corresponding test analysis after the verification process is complete.

The main function of the classification report is to declare what fire classification was achieved on the tested product in relation to the spread of flame, the volume and toxicity of smoke emitted and its susceptibility to produce flaming droplets.

Key items to look for when studying a classification report

Testing

Testing should be in accordance with the European standard EN 13501-1 for fire classification of construction products and building elements.

Timber species

Treated species must align **exactly** with what was tested, as each species can react differently to fire due the differences found in the genetic composition of timber.

Classification

The outcome achieved will provide results in relation to the spread of flame, smoke production and flaming droplets.

The classification is often itemised as per the following:

The reaction to fire behaviour is:	The additional classification in relation to smoke production is:	The additional classification in relation to flaming droplet production is:
Euro Class: B	Smoke Rating: s1	Flaming Droplets: d0

Minimum thickness

Treated timber should never be less than the minimum thickness stated on the classification report. It is however feasible to treat timber thicker than what is stated.

Fire retardant

The amount of fire retardant to be applied to each cubic metre of timber is usually stated in grams or kilograms. This is often referred to as the chemical retention required to achieve the stated fire classification.

Density

The density of treated timber must be within the range stated on the classification report. This is to ensure enough solution can be absorbed by the timber to achieve the stated fire rating.

Field of application

Information regarding how the tested products were mounted, what substrates they were attached to and whether the testing was done with or without an air gap.

The classification report is a legal document which must be provided to the customer by the company performing the fire treatment. The details declared within the classification report should correspond accurately to the information provided in the declaration of performance, the delivery note and the invoice. Any deviations could result in non-compliance.

