



NON-COM®
EXTERIOR

**FIRE RETARDANT TREATED TIMBER
FOR EXTERIOR OR SEVERE DAMP SITUATIONS**

NON-COM® Exterior was first developed in the USA in the 1960s and has proven itself globally in countless structures of many different types in the USA and Europe since its introduction.

The inclusion of NON-COM® Exterior fire retardant treated timber within a building project has a negligible effect on environmental issues as compared with untreated timber:

NON-COM® Exterior treated timber has been pressure impregnated with a water-based, amino resin formulation. The product is based on a patented, blended organic polymer system that contains no halogens or cyanide. In the event of a fire the treated timber produces only carbon dioxide, moisture and carbon char and generates little or no smoke. In service there are negligible emissions to the air.

Once pressure treated, the timber is kiln dried and heat cured, which polymerises the resins within the wood structure to lock them in place. When examined under a microscope, the cells are completely filled with the crystallised formulation offering permanent, maintenance free fire protection that lasts for the useful life of the timber. The leach resistance of NON-COM® Exterior within the treated timber ensures the durability of the fire performance in exterior exposure and severe damp situations. The treated timber is non-hygroscopic – i.e. it does not absorb water from the air – nor does it give rise to efflorescence.

NON-COM® Exterior functions primarily as a flame retardant and does not contain wood preservative chemicals. It does however confer enhanced biological durability (EBD) to the treated timber, without the need for additional treatments, through a process of wood modification whereby the bonded water insoluble resin formed within the timber exhibits a permanent physical resistance to decay and insects. NON-COM® Exterior fire retardant treatment offers a 60 year desired service life to timber in a Use Class 3 situation (as defined by EN335-1) – external building timbers used above dpc level.

DISPOSAL

NON-COM® Exterior treated timber is classified as non-hazardous and can be disposed of by landfill or incineration – please contact your local Waste Disposal Authority for further information.

ACCREDITATIONS

Arch Timber Protection holds more accreditations and certifications for its treatment practices than any other timber treatment provider in the UK:

- ISO9001 – ensuring total quality control throughout the treatment process
- ISO14001 – enforcing strict operating parameters in terms of health, safety and security, and close consideration of the impact of treatment on the environment.
- Full compliance with the guidelines listed in the Wood Protection Association Quality Scheme
- NON-COM® Exterior is listed in the Wood Protection Association Fire Retardant Manual as an approved Leach Resistant (LR) industrial treatment.
- NON-COM® Exterior has Euroclass certification for a wide range of solid timbers and plywood.

