

AITHON

www.aithon.eu

AITHON PV33

The fire protection has never been so transparent



60 minutes Fire Resistance
according to ENV 13381-7 e EN 13501-2

B-s1-d0 Reaction to Fire (ETA 15/0424)

Class A (tunnel test ASTM E84)

BS 6853 Annex B.2 smoke toxicity compliant



Class A (ISO 16000 Indoor air emission)

Water based, low VOC

EMICODE EC1 Plus

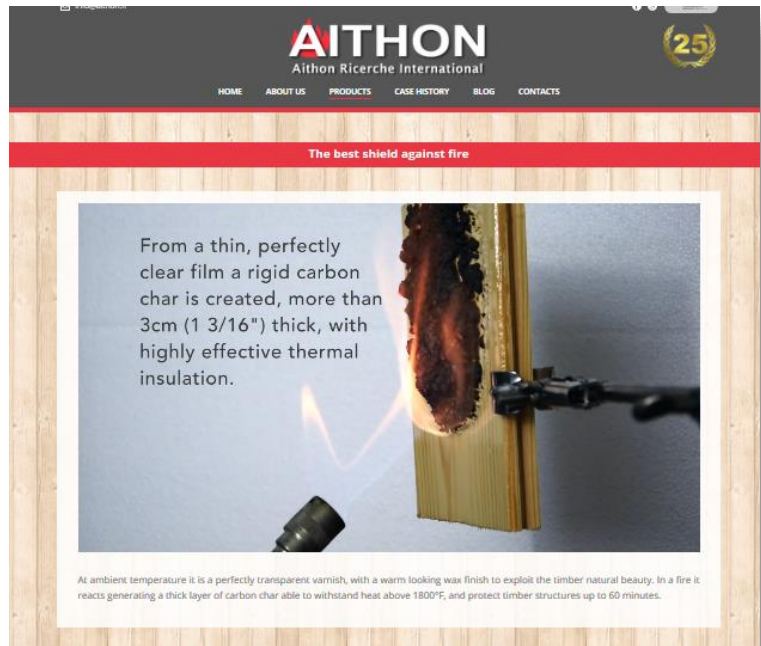
AgBB Compliant



HOW IT WORKS

See how it reacts
in the video:

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**FIRE RESISTANCE TEST
THE TIMBER BEAM IS COMPLETELY WRAPPED
INTO THE INSULATING CHAR LAYER GENERATED
BY AITHON PV33**



AITHON PV 33 at ambient temperature is just a perfectly transparent varnish, with a natural wax-like finish.

In a fire it reacts, generating a thick layer of carbon char, up to 40mm thick, able to withstand heat above 1000°C, protecting timber structures up to 60 minutes.



Historical buildings

Several tens of listed buildings across Europe are now protected with AITHON PV33.

It makes possible upgrading the fire resistance of timber structures preserving in the same time the ancient beauty of the original frame.

Using AITHON PV33, also the environmental impact of the refurbishment works is reduced.



CLT and greenbuildings



CLT (X-LAM) fire protection is a constant field of research for us, supporting environmentally friendly architecture with particular attention to the afterglow, that may destroy CLT buildings even after the fire is extinguished.

For more information, please contact our technical service.

In new buildings, the fire resistance is achieved oversizing timber beams and columns to compensate the wood thickness that is charred during a fire.

AITHON PV33 shields timber, grants class B-s1-d0 reaction to fire and reduces the charring rate.

With AITHON PV33 timber oversizing can be reduced, saving cost and weight.

CHARRING RATE REDUCTION:

Down to 0,33 mm/min (30' fire exposure)

Down to 0,47 mm/min (60' fire exposure)

THE WARRANTY OF A WIDELY TESTED SYSTEM

Testing laboratories in France, United Kingdom, USA, Ital and Denmark confirmed the quality and the reliability of AITHON PV33 system

ETA 15/0424 with 2 different finish options, solvent and water based

FIRES and CSTB: ENV 13381-7 and EN 13501-2 fire resistance up to 60 minutes

Intertek: Tunnel test ASTM E84: Class A

BRE: BS 6853 Annex B.2 smoke toxicity

Eurofins: ISO 16000 Emission tests



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19

ETA 13 / 0926

EAD 350402-00-1106

Fire protective product
See ETA for relevant characteristics



AITHON PV33 – BR – L 2016 EN

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