

# Fire Classification of AWMS Products



## UK Classification

[AWMS Skyline products](#) are manufactured from single skin aluminium sheet of 2-3mm thickness. Skyline systems are used in fascia, soffit and coping applications. All external copings are sealed/jointed with EPDM gaskets which allow for thermal expansion, prevent the ingress of water and cold bridging into the wall construction.

[AWMS Rainwater products](#) are a single thickness aluminium casting or extrusion 1.6-6mm in thickness. Rainwater systems incorporating gutters and/or downpipes are jointed with low modulus sealant or EPDM gaskets (Hydrostrip) making them water tight.

[AWMS Harmer Aluminium products](#) are a single thickness casting up to 6mm in thickness. All grates and clamps are powder coated to the signature blue and yellow Harmer colours.

Under UK Building Regulations – **Fire Safety Approved Document B**, Seals, Gaskets, Fixings and sealants, like those used within the assembly of AWMS Skyline and Rainwater products are exempt from fire rating classifications. This fire rating exemption outlined in **BS 8579:2020** is due to their necessity for performance and life safety of the system is achieved.

When specified, AWMS products can be painted using an in-house BBA Certified polyester powder coating process (PPC). The polyester powder coating used by AWMS has been tested in accordance to the protocols defined by **BS476: Fire Tests on Building Materials & Structures**.

The Parts of BS476 applicable to PPC are:

- **Part 6:** Propagation Index which is a measure of contribution to fire growth.
- **Part 7:** A method of measuring flame spread along a surface.

The AWMS PPC achieves a Fire Propagation Index of <12 and a sub-index rating <6 (Part6) and a **Class1** Rating for flame spread (Part7).

Under UK Building Regulations – **Fire Safety Approved Document B**, these results meet the criteria for the highest safety performance level, **Class 0**.

## EU Classification

Fire testing and reports issued by external independent accredited laboratories certify that our range of PPC products are classified in the agreement with European Norm **EN13501-1** as:

# A2<sub>L</sub>–s1, d0

This means:

<b>A2<sub>L</sub></b>	-	Non-combustible - no contribution to fire
<b>s1</b>	-	Lowest level for smoke emissions
<b>d0</b>	-	Lowest level for flaming droplet/particles

## Summary

Aluminium is inherently a non-combustible material with a melting point starting from 650°C and as such does not have a specific fire rating. It is the application that constitutes the need for a fire rating for which we have achieved with the results as indicated above as either a single sheet or casting / extrusion with polyester powder coated surface.

Therefore, we can advise that AWMS products achieve **Class 0, Class 1 and A2<sub>L</sub> – s1, d0** in regard to fire reaction specifications.

## Further Information

For further assistance with fire ratings or any other aspect of product performance, please contact AWMS Technical Services on 01536 383810 or [technical@alumascwms.co.uk](mailto:technical@alumascwms.co.uk)