

Quad seal

Fire Acoustic Thermal Smoke

Installation Sheet



Phone

0800 023 2482

(01329 844 500)

International:

+44 1329 844 500

email: sales@quadseal.co.uk

Fax

0800 023 2483

(01329 844 600)

+44 1329 844 600

Introduction:

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of fire rated structures using Astroflame's **Astro Quad Seal**. All Timber fire door assemblies must be fire stopped to prevent the passage of fire, smoke and hot gases. The key points for passive fire protection products are :-

- Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin
- Maintain the integrity of escape routes from a building.
- Reduce loss or damage to property from the effect of fire and smoke.
- Maintain pressure differential between compartments and ventilation channels.

Installation:

Astro Quad Seal is passed and certified for use in single and double door assemblies (single and double action), and can provide fire and smoke resistance in excess of either half an hour or one hour.

If your fire door or frame is not pre-grooved check the door manufacturers data and test sheets to establish the size and quantity of intumescent seals required.

You should also note the tested position of the seals and whether any additional protection is required around the particularly vulnerable areas of the lock and hinges'

Rebate the door or door frame to accommodate the chosen seal which should be fitted so that the PVC sleeve finishes flush with the face of the timber. An allowance in the rebate width may be necessary to allow for timber shrinkage or for paint/stains, so we recommended grooving 3% greater than the chosen seal size.

We recommend that the gap between door and frame should be no greater that 4mm.

To fix remove the release paper from the self-adhesive backing tape and push the seal firmly into the rebate along its full length. For alternate fixing methods use **Astroflame intumescent mastic** or steel

pins

If the door or frame is to be painted/stained care should be taken to ensure the paint/stain does not come into contact with the Schlegel Aquamac acoustic & thermal seal.

Periodically check seal to confirm the integrity.



Composition:

Density: 1025 Kg/m³
Flexural strength: ---
Tensile strength: 2.8
Moisture content: 3% (max.)
Expansion (under 50 psi load): 85%
Free expansion ratio (400oC 15min): 20:1
Activation temperature under 50psi load: 200oC
Pressure generation expansion @ 400oC: 10 Bar



Compliance:

Astro Quad Seal strip is manufactured in the EU, meeting the highest quality standard in compliance with ISO EN 9001:2000. F or fire test certification contact Astroflame Fireseals Technical Department.



Fire Test and Assessment Reports:

Certifire approval CF 276
Warrington Fire Research:
Acoustically Tested by Sound Research Lab



Storage and disposal:

Quad Seal should be stored indoors. No shelf life is given as the strips will not deteriorate in storage.

Disposal - please refer to [COSHH sheet](#)

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