

Technical Insulation

Passive Fire Protection

Great Britain & Ireland

K-Stop® Passive Fire Protection

UKTA and ETA Testing Applications

Introduction

Kingspan Technical Insulation Ltd have undertaken a series of rigorous, independently tested applications to validate and enhance the performance of our CE and UKCA marked firestopping solutions. These tests not only reinforce the reliability and compliance of our products but also provide valuable insight and guidance for specifiers, contractors and fire safety professionals.

This technical bulletin aims to share key findings and best practices that support safer and effective fire protection strategies across a range of construction applications.

Kingspan K-Stop® Passive Fire Protection Product Range

Kingspan K-Stop® offers a comprehensive range of passive fire protection solutions designed to meet the highest standards of fire safety and performance. A number of these products have undergone rigorous further testing to ensure compliance, reliability, and ease of installation across various applications.

- Kingspan K-Stop® Coated Batt
- Kingspan K-Stop® Compound Fire Mortar
- Kingspan K-Stop® Firescreen Sealant
- Kingspan K-Stop® Pipe Wrap

Testing was carried out under controlled conditions to simulate real-world installation environments, ensuring that each solution meets the stringent demands of modern construction and regulatory compliance. Importantly, all testing was independently verified by a UKAS-accredited laboratory, providing assurance of impartiality, accuracy, and alignment with recognised industry standards.

K-Stop® Coated Batt

Information provided is within UKTA 23/0020 for Linear Joint and Gap Seals and UKTA 23/0019 for Penetration Seals, ETA 23/1008 for Linear Joint and Gap Seals and ETA 23/0790 for Penetration Seals.

Further scope and application:

- Raised access floor barriers now fully approved.
- Service cross-section limits improved, allowing for greater flexibility in installation.
- Timber studs can now be used in drywalls without minimum distance from the fire seal.
- Timber frame linear seals in walls (horizontal and vertical applications).

- Timber linear seals in floors with 60 mm 2-S K-Stop® Coated Batt.
- EI 120 classification for cables and cable trays in drywalls.
- Where cable trays are discontinued on both sides of the penetration seal, the maximum distance to the trays should be 150 mm.
- PVC trunking approvals in walls.
- Maximum EI 60 (E 240) classification for bus-bars in rigid floors.
- Maximum EI 90 (E 120) classification for bus-bars in rigid walls.
- Iron pipes now included alongside steel pipes.
- Steel, aluminium and plasterboard linear seals in rigid walls.
- Polybutylene pipe approvals in walls.
- Ø 315 mm PE and Ø 400 mm PP pipes now approved for walls.
- Plastic pipes with reduced wall thickness now approved.
- Copper pipes with a greater phenolic foam application of insulation thickness now approved.
- Alupex pipes with glass-wool insulation now approved.
- Greater application of wall thickness for PP pipes in framed out apertures.
- Steel, copper, and alupex pipes with glass wool insulation now approved.
- Copper pipes up to Ø 159 mm approved for walls.
- Expanded approvals for large pipes in floors, including Ø 160 mm PVC and PE pipes.
- Improved approvals for pipes with elastomeric and glass wool insulation in floors.
- New approvals for key pipe brands, including:
 - Juliot Ultra Silent pipes in walls.
 - Valsir PP3, BLACKFIRE, and TRIPLUS pipes in walls.



K-Stop® Compound Fire Mortar

Information provided is within UKTA 23/0016 for Penetration Seals and ETA 23/0793 for Penetration Seals.

Further scope and application:

- Now approved for floor openings up to 3,600 x 2,600 mm (or 1,800 x 18,000 mm).
- Iron pipes are now included wherever steel pipes are referenced.
- Large copper pipes now tested and approved up to Ø 159 mm.
- Polybutylene pipes, LK PAL Universal pipes, and uninsulated copper pipes added to approved list.
- Improved approvals for:
 - Wavin AS+
 - Geberit Silent PP
 - Valsir PP3
 - Valsir BLACKFIRE
 - Valsir TRIPLUS
 - Huliot Ultra Silent pipes
- Sustained and interrupted glass wool pipe insulation is now covered for: steel, copper, and alupex pipes.
- The system is compatible with: flexible walls (>100 mm, timber or steel studs with 2 layers of 12.5 mm board each side) rigid walls (>150 mm concrete or masonry).

K-Stop® Firescreen Sealant

Information provided is within UKTA 23/0014 for Linear Joint and Gap Seals, UKTA 23/0015 for Penetration Seals, ETA 23/0795 for Linear Joint and Gap Seals and ETA 23/0794 for Penetration Seals.

Further scope and application:

- The product now holds the UKCA mark.
- Linear seals in walls against wood and steel (e.g. timber frame).
- Linear seals in floors against aluminium and steel.
- Cables and cable bundles in walls.
- Electrical conduits in walls.
- Steel, copper and alupex pipes with continuous sustained stone- or glass-wool pipe insulation in walls.
- Steel, copper and alupex pipes with locally interrupted stone- or glass-wool pipe insulation in walls.
- Use in composite floors.
- Un-insulated steel, copper and alupex pipes in walls.
- <32 mm plastic pipes in walls.

K-Stop® Pipe Wrap

Information provided is from the upcoming release of tested application from the UKTA/ETA for Penetration Seals.

- Metallic pipes through K-Stop® Pipe Wrap may be used in all angles between 90° and 45° in all directions, subject to the pipe wraps being installed fully inside the supporting construction.
- Where steel pipes are mentioned, this includes iron pipes.
- Where PVC pipes are mentioned, this includes PVC-U, PVC-C and similar if the pipe is according to EN 1329-1, EN 1452-2, EN 1453-1 and EN 1566-1. Where PP pipes are mentioned, this includes PP-MV, PP-H, PP-R and similar if the pipe is according to EN 1451-1 or DIN 8077/8078. Where PE pipes are mentioned, this includes PE-LD, PE-MD, PE-HD, PE-X and similar according to EN 1519-1, EN 12201-2 or EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1.
- K-Stop® Pipe Wrap must be installed within the base of the application for rigid floors and either side of the cavity in flexible or rigid walls.
- Stand alone application of K-Stop® Pipe Wraps may be friction fitted within rigid wall and floor constructions.
- A maximum 10 mm annulus is permitted within aperture, from penetration service to substrate subject to the void being filled within K-Stop® Intumescent Mastic Plus.
- K-Stop® Pipe Wraps can be cast or friction fitted, or installed in the systems K-Stop® Coated Batt or K-Stop® Compound Fire Mortar.

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