
Technical Insulation

Passive Fire Protection
Great Britain & Ireland

K-Stop® Coated Batt

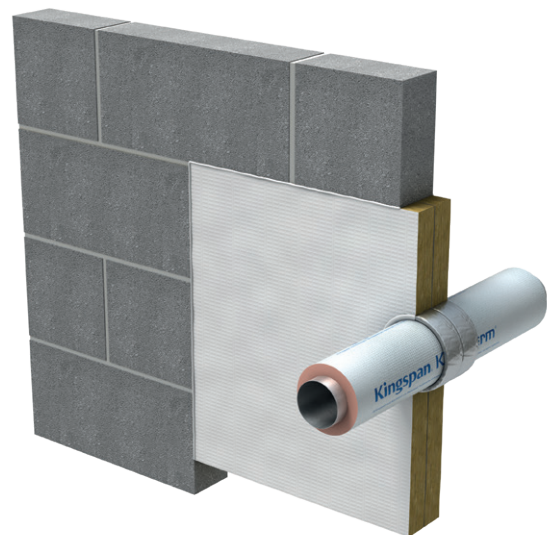
Technical Data Sheet

Description

Kingspan K-Stop® Coated Batt is designed to prevent the spread of fire and smoke through openings in fire rated walls and floors where openings are formed to allow the installation of multiple building services. K-Stop® Coated Batt will also maintain the acoustic design performance in fire rated walls and floors.

K-Stop® Coated Batt consists of a high density stone wool core, over-coated with Kingspan K-Stop® Multicoat. The top coating provides additional protection by significantly reducing the permeability of the stone wool core and prevents the passage of hot gases, thus reducing the temperature rise on the unexposed side and reducing heat conduction through the building services.

K-Stop® Coated Batt is available with top coating on one or two sides, selected on the basis of installation considerations and fire resistance. On site, K-Stop® Coated Batt must be used together with Kingspan K-Stop® Intumescent Mastic Plus for sealing around building services and the surrounding construction.



General Properties and Precautions

- Classified for all types of constructions with or without building service penetrations.
- Classified for linear seals between multiple different substrates.
- Simple and very quick to install.
- Resists UV, humidity and frost (once cured).
- Easy to retrofit additional building services after installation.
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, plastic and most non-porous surfaces. Should not be used in direct contact with bituminous materials.
- May be used in unlimited lengths in walls with heights up to 1200 mm and 2400 mm by 1200 mm in a floor.
- Can be installed within drywall constructions incorporating steel or timber studs, with or without perimeter framing around the opening.
- Halogen free with added fungicide.
- K-Stop® Coated Batt can be supplied with a smooth surface.
- Precautions are required to be taken to prevent a person stepping onto a blank horizontal penetration seal.
- Suitable for use as internal partition walls and barriers, as well as installations beneath raised access flooring systems and roof membranes (refer to relevant data sheets for further details).
- Deflection requirements available. Please contact the Kingspan Technical Insulation technical services department for further details on technical.pfp@kingspan.com.

K-Stop® Coated Batt

Emission Data (Indoor Air Quality)

Compound	Emission Rate After 4 Weeks
TVOC	140 µg/m ³
Formaldehyde	5.7 µg/m ³
Ammonia	n.d.
Carcinogenic	n.d.

NB n.d. or < means not detected.

Regulation or Protocol	Conclusion
French VOC Regulation	A+
French CMR Regulation	Pass
Italian CAM	Pass
ABG / AgBB	Pass
Belgian Regulation	Pass
Indoor Air Comfort	Pass
BREEAM International	Exemplary Level
BREEAM NOR	Exemplary Level
LEED® v4.1 BETA	Pass

K-Stop® Coated Batt has been tested by Eurofins Product Testing; reports available upon request.

Air Permeability

Positive Pressure (Pa)	Leakage (m ³ /m ² /h)	Negative Pressure (Pa)	Leakage (m ³ /m ² /h)
25	0.00	25	0.00
50	0.01	50	0.01
100	0.04	100	0.03
200	0.11	200	0.06
300	0.28	300	0.15
450	0.88	450	0.68
600	1.40	600	1.32

Resistance to Fire

Construction	Description	Classification
Flexible walls comprise gypsum, masonry, aerated concrete or concrete	Unlimited width by 1200 mm high seal with double 50 mm K-Stop® Coated Batt 1-S	EI 120 (E 120)
Timber walls comprise solid wood or cross-laminated timber	Up to 1200 mm wide by 600 mm high aperture with double 50 mm K-Stop® Coated Batt 1-S as pattress	EI 120 (E 120)
Rigid walls comprise masonry, aerated concrete or concrete, within walls or between the head of walls and the soffit of floor slabs	Unlimited width by 1200 mm high seal with single 60 mm K-Stop® Coated Batt 2-S	EI 90 (E 240)
	Unlimited width by 1200 mm high seal with double 60 mm K-Stop® Coated Batt 2-S	EI 180 (E 240)
	Up to 1200 by 1200 mm seal with double 60 mm K-Stop® Coated Batt 2-S	EI 240 (E 240)
Rigid floors comprise aerated concrete or concrete within floors or between floors and walls	Up to 1200 by 600 mm seal with single 60 mm K-Stop® Coated Batt 2-S	EI 120 (E 240)
	Up to 2400 by 1200 mm seal with single 60 mm K-Stop® Coated Batt 2-S	EI 90 (E 120)
	Up to 1200 by 600 mm seal with double 60 mm K-Stop® Coated Batt 2-S	EI 180 (E 240)
	Up to 2400 by 1200 mm seal with double 60 mm K-Stop® Coated Batt 2-S	EI 120 (E 180)
Timber floors comprise solid wood or cross-laminated timber	Up to 1200 by 600 mm aperture with double 50 mm K-Stop® Coated Batt 1-S as pattress	EI 90 (E 90)
Raised access floors minimum EI 45. <600 mm height, unlimited length	1 x 60 mm K-Stop® Coated Batt 2-S	E 120 EI 60
	1 x 80 mm K-Stop® Coated Batt 2-S	E 120 EI 90
	2 x 50 mm K-Stop® Coated Batt 1-S or 1 x 100 mm K-Stop® Coated Batt 2-S	EI 120

NB The classifications are limited to the service penetration applications. For more in depth resistance applications, please read the Installation Instructions fully before installation.

Additional Aperture Sizes in Floors

Under BS EN 1366-3: 2021* (Fire resistance tests for service installations - Penetration seals) rules, results from tests in floors with a penetration seal length of minimum 1 m apply to any length as long as perimeter length to seal area ratio is not smaller than that of the test specimen.

The following aperture sizes are therefore allowed where 2400 x 1200 mm is described in this data sheet and in the installation instructions:

Maximum Aperture Sizes Within Floors or Between Floors and Walls

1200 mm width x 2400 mm length (tested)

1200 mm width x 12000 mm length

≤ 800 mm width x ∞ (infinite) length

The following aperture sizes are also allowed where 1200 x 600 mm is described in this data sheet and in the installation instructions:

Maximum Aperture Sizes Within Floors or Between Floors and Walls

600 mm width x 1200 mm length (tested)

600 mm width x 6000 mm length

≤ 400 mm width x ∞ (infinite) length

Pipe End Configurations

When testing pipes, one can choose not to cap (or close) the pipe, or cap the pipe inside the furnace, or outside the furnace, or on both sides. The configuration chosen depends on the intended application of the pipe and / or the installation environment.

The code defining if a pipe is capped is stated after the fire classification. For instance EI 60 C/U which means the pipe was capped inside the furnace, and uncapped outside the furnace. The test configuration defines the approvals possible. Our engineering judgment based on BS EN 1366-3: 2021* (Fire resistance tests for service installations - Penetration seals) are:

Intended Use of Pipe	Pipe End Condition ³⁾	
Rainwater pipe, plastic	At drainage	U/U ¹⁾
	Not at drainage	C/C ²⁾
Drainage or sewage pipe, plastic	Ventilated drain	C/U ¹⁾
	Unventilated drain	U/C ²⁾
	Drain w/water trap	U/C ¹⁾
	Not at drainage	C/C ²⁾
Metal or plastic pipe in closed system (water, gas, air etc.)	C/C ¹⁾	
Metal pipe in ventilated system (sewage etc.)	U/C ¹⁾	
Flue gas recovery system pipe, plastic	U/C ¹⁾	
Pipe with open ends and ≥ 50 cm length on both sides, plastic	U/U ¹⁾	
Waste disposal shaft pipe, metal	U/C ¹⁾	

¹⁾ Suggested in BS EN 1366-3: 2021*.

²⁾ Kingspan's judgment based on tests.

³⁾ U/U classified fire seals cover C/U, U/C and C/C. C/U classified fire seals cover U/C and C/C. U/C classified fire seals cover C/C, except steel pipes, where U/C classified fire seals cover C/U and C/C. C/U classified fire seals cover C/C.

* And all previous editions.

K-Stop® Coated Batt

Analysis of cPVC Pipes, e.g. BlazeMaster

K-Stop® Intumescent Mastic Plus, as part of the K-Stop® Coated Batt system, has been tested for chemical resistance of a sealant when applied to a cPVC pipe. The sealant does not affect cPVC pipes; the tests showed no difference between the control and exposed results at Yield. Analysed using Fourier Transform Infrared (FTIR) Spectroscopy; examination of the sealant contact regions of the cPVC pipe after removal of the sealant showed no evidence of visible discolouration or changes at the pipe surface.

Installation

Please refer to the K-Stop® Coated Batt installation guide, available to download from www.kingspanpassivefireprotection.co.uk.

Technical Data

Density	Board: 160 kg/m ³ (150 – 170 kg/m ³) Coating: 1.3 – 1.4 kg/ltr
Durability	Y ₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y ₂ , Z ₁ and Z ₂
Non-sticky	Max. 75 minutes (sealant)
Film Forming	Max. 25 minutes (sealant)
Totally Hardened	3 to 5 days depending on thickness and temperature
Reaction to Fire	Class D-s1, d0
Flexibility	Medium; 7.5%
Thermal conduct.	0.038 W/mK
Storage	May be stored for a long period of time. To be stored in temperatures between 5°C and 30°C
Limitations	If the boards are to be used in permanently humid areas Kingspan K-Stop® Multicoat should be applied over any sealant or pipe wraps
Temperature range	-30°C to +80°C (when hardened)
Installation temp.	+5°C to +50°C
Working life	Minimum 25 years if conditions are met
Colour	White surface, green core
Packaging	K-Stop® Coated Batt 50 x 600 x 1200 mm: 80 pcs per pallet K-Stop® Coated Batt 60 x 600 x 1200mm: 72 pcs per pallet

Contact Details

Great Britain

Kingspan Technical Insulation Ltd
Harvey Road | Burnt Mills Industrial Estate
Basildon | SS13 1QJ

T: +44 (0) 1524 388 898
E: sales.pfp@kingspan.com
www.kingspanpassivefireprotection.co.uk

For individual department contact details please visit
www.kingspantechinsulation.co.uk/contacts

Ireland

Kingspan Insulation Ltd
Castleblayney | County Monaghan

T: +353 (0) 42 975 4219
E: sales.pfp@kingspan.com
www.kingspantechinsulation.ie



Technical Data Sheet to
ETA 23/0790 & ETA 23/1008
0843-UKTA-23 0019
0843-UKTA-23 0020



To check that you have the latest version of this brochure please visit
www.kingspanpassivefireprotection.co.uk or scan the QR code directly above.

To access pre-existing product information or information relating to previously sold/
discontinued products please email info.kti@kingspan.com.

The information contained in this brochure is believed to be correct at the date of publication. Kingspan Technical Insulation Limited ("Kingspan Technical Insulation") reserves the right to alter or amend the product specifications without notice due to continuous improvement commitments. There may also be relevant changes between publications with regard to legislation, or other developments affecting the accuracy of the information contained in this brochure. Product thicknesses shown in this document should not be taken as being available ex-stock and reference should be made to the current Kingspan Technical Insulation price-list or advice sought from Kingspan Technical Insulation's Customer Service Department. The information, technical details and fixing instructions etc. included in this literature are given in good faith and apply to uses described. Kingspan Technical Insulation does not accept responsibility for issues arising from using products in applications different from those described within this brochure or failure to correctly follow the information or instructions as described within this brochure. Recommendations for use should be verified with a suitable expert or professional for suitability and compliance with actual requirements, specifications and any applicable laws and regulations. For other applications or conditions of use, Kingspan Technical Insulation offers a technical advisory service (see above for contact details), the advice of which should be sought for uses of Kingspan Technical Insulation products that are not specifically described herein. Please check that your copy of this literature is current by contacting the Kingspan Technical Insulation Marketing Department.

© Kingspan, K-Stop and the Lion Device are Registered Trademarks of the Kingspan Group plc in the UK, Ireland and other countries. All rights reserved.

Registered in England and Wales, No. 05571822. Registered Office: Harvey Road, Burnt Mills Industrial Estate, Basildon, SS13 1QJ, England. VAT GB872003452.

Registered in Ireland, No. 54621. Registered Office: Bree Industrial Estate, Castleblayney, Co. Monaghan, Ireland. VAT IE45750691.

