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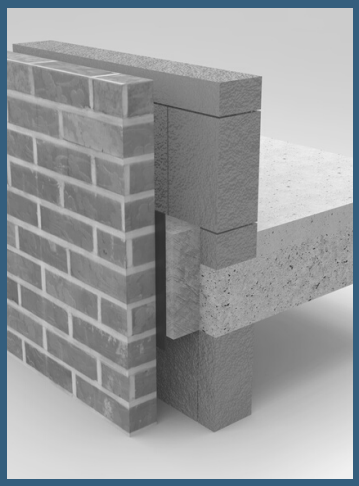
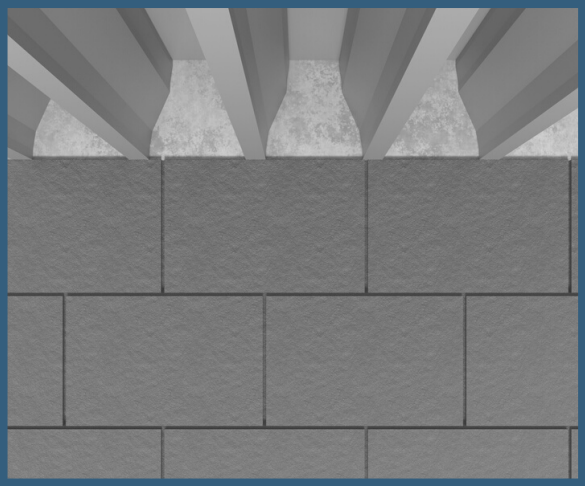
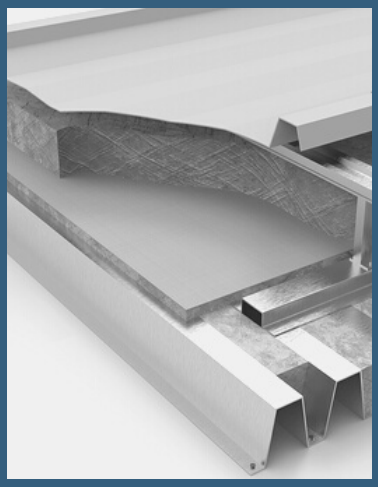
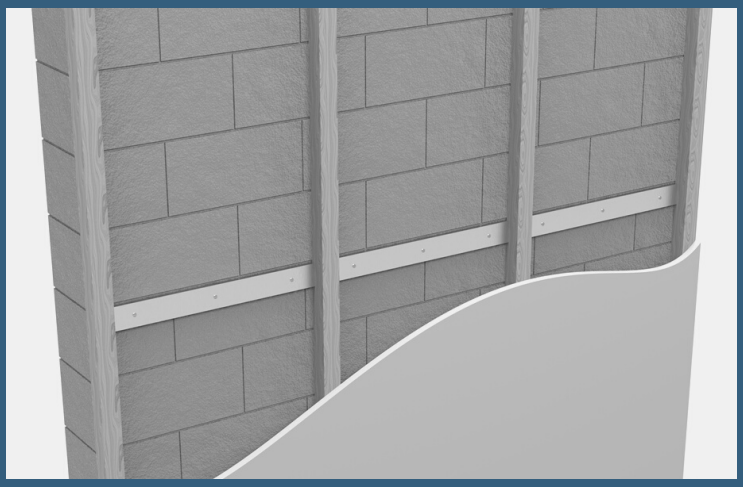
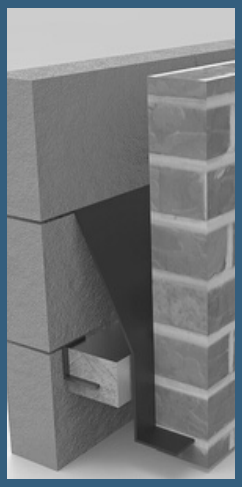





PRODUCT BROCHURE

CONTENT

PRODUCT CATEGORIES

Concept Conversions Ltd, Thermal, Acoustic & Fire Solution Manufacturers provide a tailor-made range of passive fire protection and acoustic solutions for Housing, Refurbishment, Industrial H&V and Commercial Construction using non-combustible and fire certificated materials. Our technical team will advise you on which of our product range would be suitable for your application, and then manufacture the product according to your size specifications while maintaining full fire-safe integrity.

Commercial

- Trapezoidal Acoustic Roof Infills [Data Sheet 1010]
- Cavity Firestop Slab [Data Sheet 1008]
- Horizontal Rainscreen Cladding Barrier [Data Sheet 1007]
- Raised Access Floor Firestop Slab [Data Sheet 1011]
- Linear Firestop Strip & Profiled Fire Blocks [Data Sheet 1009]
- Sound Attenuation Panels [Data Sheet 1012]

Housing

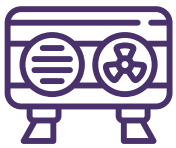
- Masonry Stop Sock [Data Sheet 1001]
- Timber Cavity Barrier [Data Sheet 1002]
- Party Wall Sock [Data Sheet 1006]
- Party Wall DPC [Data Sheet 1003]
- Horizontal Party Wall DPC [Data Sheet 1005]
- Polycor FR Insulated DPC Cavity Closer [Data Sheet 1004]
- Polycor Insulated DPC Cavity Closer [Data Sheet 1014]

Building Systems

- Intumescent Cavity Barriers [Data Sheet 1016]
- EWI Railed Slab & Lamella Firebreaks [Data Sheet 1017]
- Joist Barrier [Data Sheet 2001]

Interior

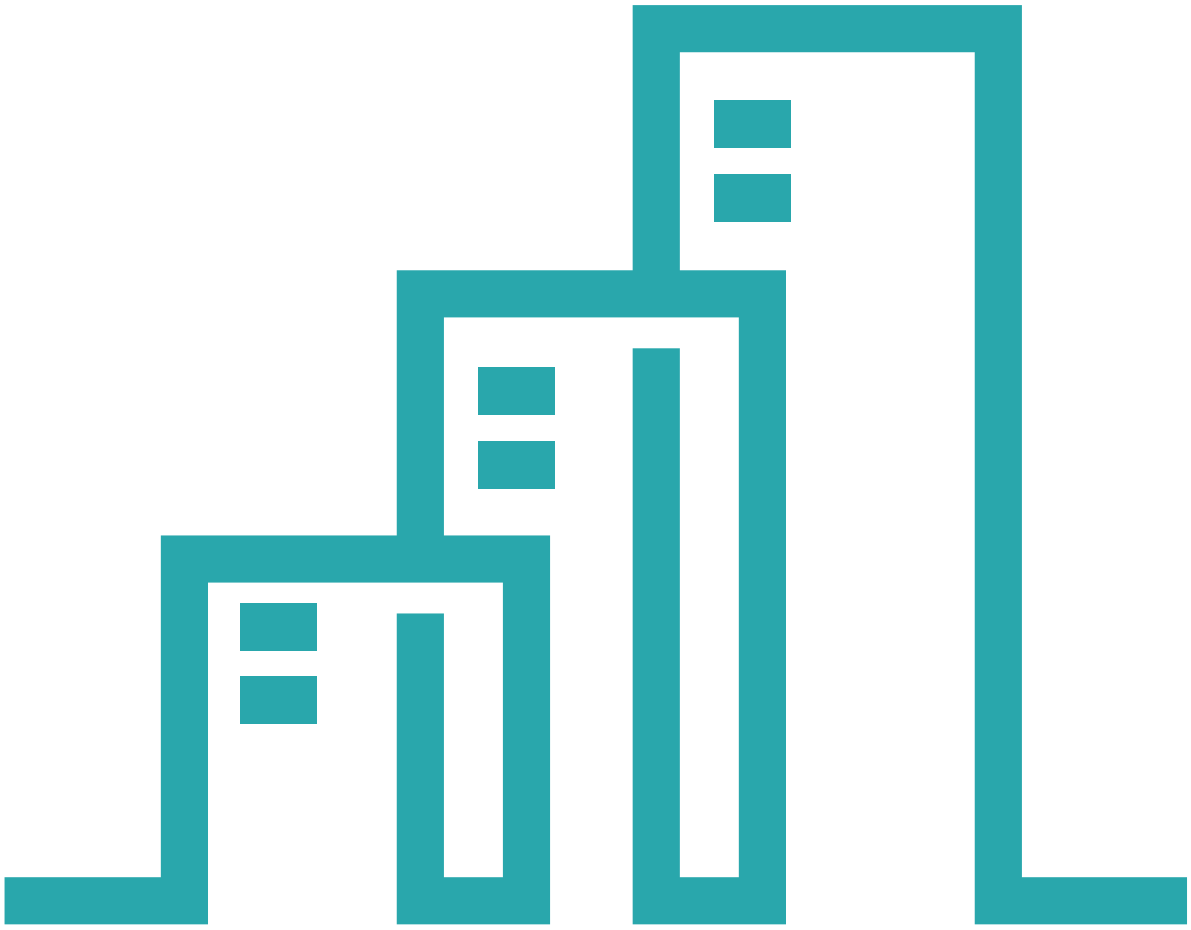
- Ceiling Roof Void & Interior Products
- Cold Water Tank Lagging Jackets [Data Sheet 1018]



HVAC

- Lamella Roll [Data Sheet 1015]

Bespoke Manufacturers of Thermal, Acoustic and Fire Solutions to fit your individual needs.



Commercial

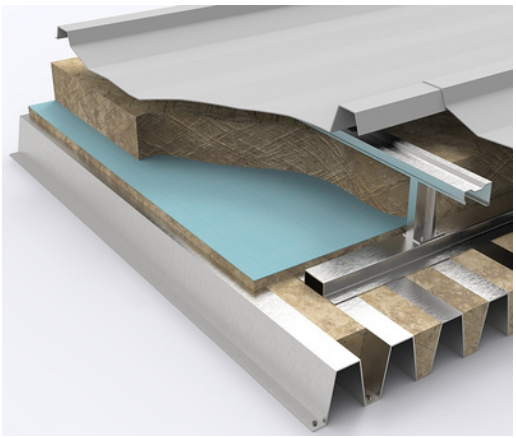
CONCEPT CCL CONVERSIONS LTD

INDEPENDENT MANUFACTURERS OF THERMAL, ACOUSTIC & FIRE SOLUTIONS

COMMERCIAL

Data Sheet 1010

TRAPEZOIDAL ACOUSTIC ROOF INFILLS



DESCRIPTION:

CCL Acoustic Infills consist of rigid slabs of non-combustible mineral wool that have been factory cut to suit the upper profile of structural metal roof decks.

PURPOSE:

CCL Acoustic Infills are designed to prevent reverberation and improve the acoustic environment in buildings with large areas of hard internal surfaces such as leisure centres, school sports halls and swimming pools.

BENEFITS:

- Supplied to suit any profiled roofing sheet
- Simple to install
- Excellent acoustic absorption
- Water repellent
- Maintenance free

Specification

Dimensions

CCL Acoustic Infills are normally supplied 1200mm long and are factory cut to fit the relevant roof profile.
Shorter lengths are available upon request.
The product can be supplied un-faced although where it is used with perforated metal decks, it is normally faced on the lower three sides with black or white glass tissue.
Alternatively, it can be faced on all four sides to further decrease the risk of fibre migration.

Density:

CCL Acoustic Infills are available in the following grades;

- 45kg density mineral wool core
- 60kg density mineral wool core
- 100kg density mineral wool core

Standards & Performance:

The mineral wool slabs used in the production of CCL Acoustic Infills achieves a fire classification of Euroclass A1 as defined in BS EN 13501 - 1.

The use of CCL Acoustic Infills can contribute towards the satisfaction of a requirement for a ceiling with Class C acoustic absorption.

See Approved Document E and Building Bulletin 93 (The Acoustic Design of Schools) for guidance.

Handling and Installation:

CCL Acoustic Infills are normally supplied on polythene wrapped pallets. Protective weather hoods are included where requested.

The infills are installed directly into the upper trough of the profiled roofing sheet. All joints should be tightly butted and, where necessary, lengths can be trimmed using a sharp knife or a finely serrated saw.

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COMMERCIAL

Data Sheet 1010

TRAPEZOIDAL ACOUSTIC ROOF INFILLS

Dimension/Density

Concept Trapezoidal Acoustic Infills - White/Black Tissue Faced			Density Range		
Profile	Profile Dimensions	No Per Pallet	45kg/m3	60kg/m3	100kg/m3
D32	32mm x (24mm x 72mm) x 1.2mtr	1430	✗	✗	✓
TR35	35mm x (34mm x 89mm) x 1.2mtr	1300	✗	✗	✓
D35	35mm x (34mm x 75mm) x 1.2mtr	1300	✗	✗	✓
D46	46mm x (67mm x 120mm) x 1.2mtr	600	✗	✓	✓
D60	60mm x (64mm x 110mm) x 1.2mtr	480	✓	✓	✓
D100	100mm x (63mm x 124mm) x 1.2mtr	240	✓	✓	✓
D135	135mm x (43mm x 165mm) x 1.2mtr	150	✓	✓	✓
D137	137mm x (43mm x 166mm) x 1.2mtr	150	✓	✓	✓
D153	153mm x (40mm x 161mm) x 1.2mtr	156	✓	✓	✓
D159	159mm x (38mm x 142mm) x 1.2mtr	156	✓	✓	✓
D200	200mm x (75mm x 170mm) x 1.2mtr	100	✓	✓	✓

Items marked with an ✗ are not generally available due to the product being very poor to handle on site, resulting in high wastage. Other dimensions & Deck Profiles are available upon request.

Acoustic Absorption

Acoustic Absorption co-efficients - S = Solid Backing - C = Cavity							
Thickness	45Kg/m3						
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
25S	0.05	0.25	0.55	0.75	0.9	1.00	0.61
40S	0.14	0.40	0.87	1.00	1.00	1.00	0.82
50S	0.25	0.65	1.05	1.10	1.05	0.95	0.96
75S	0.50	1.05	1.20	1.15	1.10	0.95	1.13
100S	0.80	1.15	1.20	1.15	1.15	1.00	1.16
50C	0.45	0.95	0.80	0.95	0.95	1.00	0.91

Acoustic Absorption co-efficients - S = Solid Backing - C = Cavity							
Thickness	60Kg/m3						
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
25S	0.10	0.20	0.65	0.85	1.00	0.90	0.68
40S	0.13	0.49	0.95	1.00	1.00	1.00	0.86
50S	0.25	0.65	1.05	1.10	1.10	0.95	0.98
75S	0.55	1.10	1.20	1.15	1.15	1.05	1.15
50C	0.45	0.90	0.80	0.90	0.95	0.95	0.89

Acoustic Absorption co-efficients - S = Solid Backing - C = Cavity							
Thickness	100Kg/m3						
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
25S	0.05	0.30	0.70	0.95	1.05	1.00	0.75
40S	0.12	0.44	0.88	1.00	1.00	1.00	0.83
50S	0.35	0.85	1.10	1.10	1.15	1.10	1.05
75S	0.44	1.00	1.00	1.00	1.00	1.00	1.00
50C	0.65	0.95	0.80	0.90	0.95	1.00	0.90

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INDEPENDENT MANUFACTURERS OF THERMAL, ACOUSTIC & FIRE SOLUTIONS

COMMERCIAL

Data Sheet 1008

CAVITY FIRESTOP SLAB

Horizontal Firestop between floor slab

DESCRIPTION:

CCL Cavity Firestop Slab consists of rigid slabs of mineral wool faced on both sides with reinforced aluminium foil. The foil facing is printed with lines along the length to aid the fabrication of cut strips on site. The slab can be supplied factory cut to suit specific cavity widths, and where necessary, have a layer of DPC bonded to one edge.

PURPOSE:

CCL Cavity Firestop Slab is designed to prevent the passage of fire in all cavity walls as well as between a curtain wall system and a concrete floor slab.

BENEFITS:

- Available in slabs or cut to size
- Suits cavities 15mm-300mm wide
- Simple to cut and install
- 1 and 2 hour fire resistance
- Water repellent

Specification

Dimensions:

Firestop 60mm - 75mm x 600mm x 1200mm
Firestop 120mm - 100mm x 600mm x 1200mm

Standards & Performance:

The mineral wool core of a CCL Cavity Firestop slab achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.

The product has been independently tested adopting procedures and criteria from BS476: part 20: (1987). CCL Cavity Firestop 60mm and 120mm slabs comply with the provisions of Approved Document B 2010 (2019 edition).

CCL Cavity Firestop
- Firestop60 provides 1 hour fire resistance
- Firestop120 provides 2 hours fire resistance.

Curtain Wall & Cladding Systems:

Horizontal Firestop within masonry cavity wall

The CCL Cavity Firestop system is suitable for use with wall cladding systems.
The performance of the firestop will depend upon the integrity and stability of the cladding system for the duration of the fire rating where required.
Where there is a possibility of significant distortion during a fire, the cladding system must be attached to the structural floor, close to the firestop, with steel brackets.
Due to the variety of cladding available, the system manufacturer should be contacted to confirm the suitability of its use with the firebarrier for the resistance period required.

Fixing:

Clips are required when the barrier is installed horizontally. They may be omitted during vertical installation if the barrier is supported at the base.
The fixing clips should be bent into a Z shape and penetrate the firestop by over half of its overall width at a rate of 2 per length (approx. 300mm from end to end)
The barrier should be securely fitted into the cavity ensuring it is compressed by approximately 5mm and the ends form a tight butt joint.
The fixing clip should then be mechanically fixed to the floor slab or inner block work.
Finally seal the joints with Class O aluminium foil tape.

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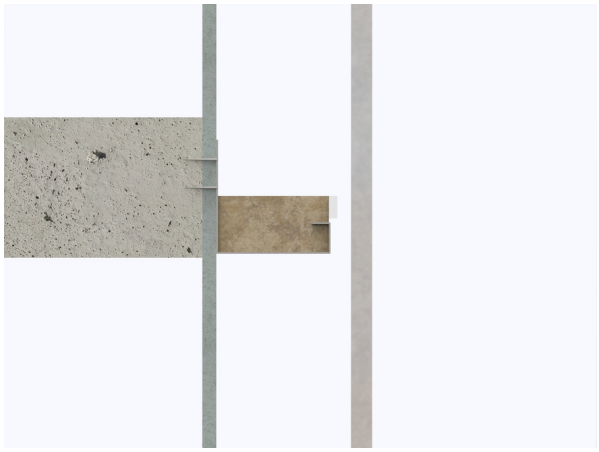
COMMERCIAL

Data Sheet 1007

HORIZONTAL RAINSCREEN CLADDING BARRIER



Side view showing rainscreen barrier held in place by the unique retaining bracket

DESCRIPTION:

CCL Rainscreen Cladding Barrier consists of rigid strips of non-combustible mineral wool that have all four edges faced with bright Class O reinforced foil. To one edge, a length of intumescent strip has been factory applied.

PURPOSE:

CCL Rainscreen Cladding Barrier is designed to provide a horizontal barrier that will prevent the passage of smoke and fire whilst maintaining the requirement to provide a 25mm or 50mm cavity behind rainscreen cladding systems. This allows any penetrating water to drain vertically and a free flow of air around the building envelope.

BENEFITS:

- Fabricated to suit specific cavity size
- Integral intumescent edge strip
- Simple fixing system
- 60-120 minutes fire resistance
- Maintenance free

Specification

Dimensions

CCL Rainscreen Cladding Barrier is manufactured to suit the specific cavity width, fire rating and residual gap required:

HRSB 60/25	60 min fire	25mm gap
HRSB 60/50	60 min fire	50mm gap
HRSB 120/25	120 min fire	25mm gap
HRSB 100/50	100 min fire	50mm gap

Vertical Barriers:

For vertical barriers in rainscreen systems it should be possible to fully fill the void with CCL Firestop Slab.
- CCL Firestop 60 provides 60 minutes fire resistance.
- CCL Firestop 120 provides 120 minutes fire resistance.

Standards & Performance:

The mineral wool core of a CCL Rainscreen Cladding Barrier achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1. The product has been independently tested adopting procedures and criteria of EN1363-1-1999 and principles of EOTA-TR31. The system was tested between two concrete lintels as outlined in Technical Guidance Document TGD-19. Guidance should be sought to ensure the fire performance of the building envelope is comparable to the selected cavity barrier.

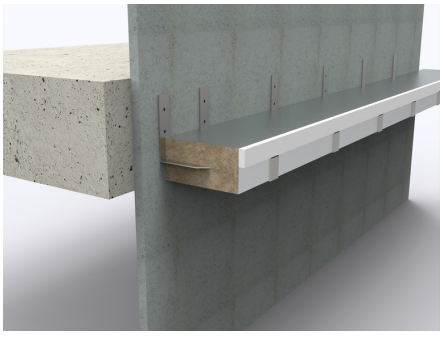
Fixing:

Rainscreen Cladding Barrier is secured to the inner structural wall utilising one of the unique Rainscreen Barrier Bracket systems. For smaller cavities, these are supplied with a flat shaft to suit the specific barrier width supplied.

Wider cavities utilise our unique self-retaining bracket. Care should be taken to ensure the insulation fits tightly into the bracket and is held firmly against the inner structural wall.

Two brackets should be used per length of barrier sited approx. 250mm from each edge. The brackets are secured to the inner wall using steel anchors or screws before the insulation is "push fitted" into place.

Adjacent lengths of barrier should be tightly butted and the top of the joint sealed with foil tape.



Retaining brackets are fixed to the inner structural wall before the barrier is fitted

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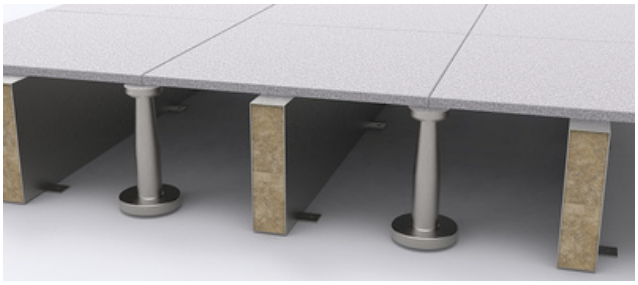
Data Sheet 1011

RAISED ACCESS FLOOR FIRESTOP SLAB



Firestop Slab fixed into position with FS fixing brackets

DESCRIPTION:

CCL Raised Access Floor Firestop Slab consists of rigid slabs of dense mineral wool faced on both sides with reinforced aluminium foil. The foil facing is printed with lines along the length to aid the fabrication of cut panels on site.

PURPOSE:

CCL Raised Access Floor Firestop Slab is designed to prevent the passage of fire and smoke through the void formed under raised access floors. They are installed where a fire barrier requirement is created by either the need to subdivide large uninterrupted cavities or aligned under a partition to maintain the partition's fire rating.

BENEFITS:

- Fully meets Building Regulations
- Available in slabs or cut to size
- Suitable for cavities up to 600mm
- Simple to cut and install
- Takes up building tolerances
- Excellent acoustic properties

Specification

Dimensions

RAF Slab 60 - 75mm x 600mm x 1200mm
RAF Slab 120 - 100mm x 600mm x 1200mm

Standards & Performance:

The mineral wool core of a CCL Raised Access Floor Firestop Slab achieves a fire classification of Euroclass A1 as defined in BS EN 13501 -1.

CCL Raised Access Floor Firestop will exceed the requirement to provide a 30 minute cavity barrier as defined in Approved Document B of the Building Regulations 2010 (2019 edition).

CCL Raised Access Floor Firestop 60 provides 1 hour fire resistance unsupported in voids up to 400mm (over 400mm requires support with fixings).

CCL Raised Access Floor Firestop 120 provides 2 hours fire resistance unsupported in voids up to 400mm (over 400mm requires support with fixings).

Fixing:

Prior to fixing the void height should be measured to which 5mm should be added to allow for compression fitting of the barrier. The slabs may be ordered factory cut to suit most voids if the cavity dimensions are already known. Supply in slab form may be of benefit if the void dimension is unknown or where it may vary,
The standard product is supplied in slabs measuring 600mm x 1200mm and are easily cut on site using a sharp serrated knife.
The cut slabs are compression fitted between the structural floor and the raised access floor ensuring that all joints are tightly pushed together. The joints should be sealed using Class 0 rated aluminium foil tape to complete the smoke seal.
Where required , the fixing brackets are impaled centrally into the base of the slab on either side at approx. 600mm centres and are mechanically fixed to the structural floor using suitable metal fasteners.
The brackets are supplied flat with a series of notches and fixing holes that enable them to be easily fabricated by hand to suit the barrier height required. The bracket should penetrate the barrier by more than half of the void being filled.

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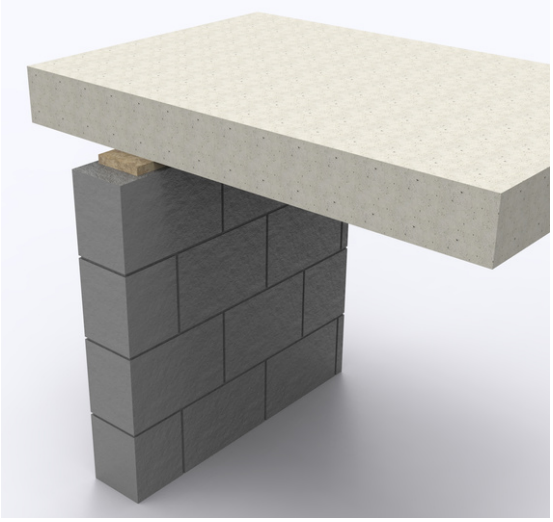
COMMERCIAL

Data Sheet 1009

LINEAR FIRESTOP STRIP AND PROFILED FIRE BLOCKS



DESCRIPTION:

CCL Linear Firestops & Trapezoidal Fireblock consist of rigid slabs of non-combustible mineral wool cut into strips and trapezoidal profiles.

PURPOSE:

CCL Linear Firestops are designed to prevent the passage of fire at the point where walls meet concrete soffits and profiled metal decking.
The Linear Firestop strip can also be used as an expansion joint in masonry walls.

BENEFITS:

- Supplied to suit joint size or sheet profile
- Simple to install
- Water repellent
- Maintenance free
- Takes up building tolerances

Specification

Dimensions

CCL Linear Firestop Strips are supplied 1200mm long and factory cut to suit the aperture to be filled.
CCL Firestop Blocks are supplied to suit the trapezoidal profile of the metal decking specification.

Standards & Performance:

The mineral wool slabs used in the production of CCL Linear Firestop strips and blocks achieves a fire classification of Euroclass A1 as defined in BS EN 13501 - 1.
The project range has been independently tested adopting procedures and criteria from BS476 : part 20 : (1987).
CCL Linear Firestop strips and blocks comply with the provisions of Approved Document B 2010 (2019 edition)

Gaps up to 75mm		Gaps up to 100mm
Width of Firestop		**Fire Resistance**
75mm	75mm	60 minutes
75mm	100mm	120 minutes

Fixing:

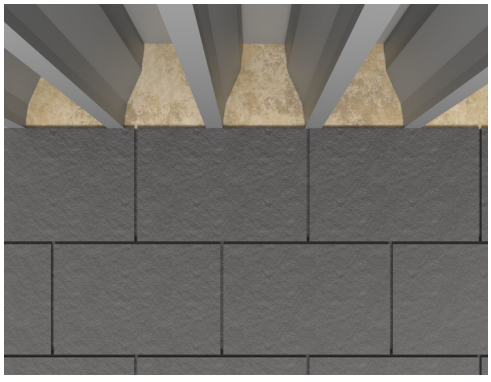
CCL Linear Firestop Strips are push fitted into place. The insulation must be compressed and must fit tightly and completely. All joints must be tightly butted. If the gap to be filled is between two building elements which may separate during a fire, the two components must be connected with steel brackets to ensure no separation occurs.

Trapezoidal Firestop Blocks are friction fitted into place. If the block overhangs the masonry wall by more than 50% of its size, it should be fitted to the deck with steel fixings at a max of 400mm centres.

Where necessary, small gaps and uneven surfaces can be filled using intumescent mastic.

Accessories:

Intumescent and acoustic mastic is available to use in conjunction with our range of fire rated strips and blocks.



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SOUND ATTENUATION PANELS

DESCRIPTION:

CCL Sound Attenuation Panels consist of semi-rigid mineral wool slabs that are enclosed in bright aluminium foil and black glass tissue or heavy acoustic glass cloth.

PURPOSE:

CCL Sound Attenuation Panels are designed to reduce reverberant noise and improve speech intelligibility in buildings employing public address systems such as railway stations and airports.

BENEFITS:

- Fire, thermal and acoustic solution
- Simple to install
- Tested for smoke toxicity
- Proven STI performance

Specification

Standards & Performance:

The mineral wool infill used in the production of CCL Sound Attenuation Panels achieves a fire classification rating of Euroclass A1 as defined in BS EN 13501-1.

The sound attenuation systems available have been tested to BS6853 D8.4:1999 smoke emission.

Speech Transmission Index ratings (STI) depend on the thickness of panel and the application of the systems in unique building environments. Ratings in the range of 0.5 - 0.7 STI are achievable, although project specific assessment and testing should be sought.

The thermal conductivity of the mineral wool infill used in the production of Sound Attenuation Panels is 0.035 W/mK.

Fixing:

The installation of the Sound Attenuation Systems depends on the individual building environment.

Fixing systems can be provided for soffit mounted applications.

Powder coated steel frames and mounting angles can be supplied for passenger tunnels and other circumstances where aesthetic consideration needs to be taken into account.

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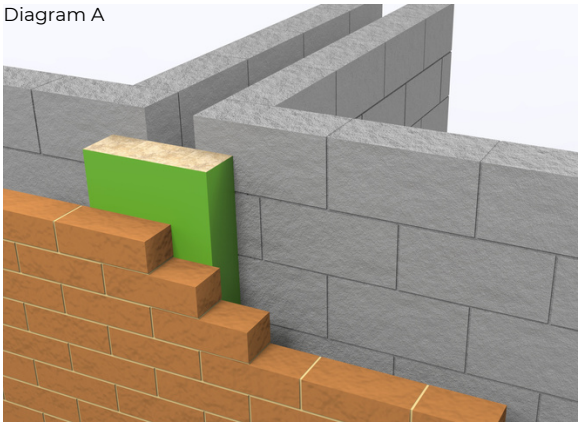
Housing

MASONRY STOP SOCK

Diagram A



DESCRIPTION:

CCL Masonry Stop Sock consists of a length of flexible mineral wool slab fully enclosed in polythene.

PURPOSE:

CCL Masonry Stop Socks are designed to prevent fire penetration and minimise sound transmission through masonry cavity walls of buildings.

BENEFITS:

- Meet full Building Regulations
- Fire, thermal and acoustic solution
- Simple to install
- Water repellent
- Maintenance free

Specification

Dimensions

CCL Masonry Stop Socks are supplied in 1200mm lengths and are factory cut to suit cavity widths from 50mm to 150mm. Cavities wider than 150mm can be accommodated, although CCL Firestop Slab may be a more suitable application.

Standards & Performance:

The mineral wool core of a CCL Masonry Stop Sock achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.
The correct use of a CCL Masonry Stop Sock will exceed the requirement for a 30 minute cavity fire barrier as defined in Approved Document B of the Building Regulations 2010 (2019 edition). Table B3 of Appendix B.
The product has been independently tested adopting procedures and criteria from BS476:part20:(1987) and achieved a 1 hour fire resistance. Further independent testing and assessment has concluded that increasing the width of the barrier an increase the fire resistance up to 4 hours.
Approved Document B of the Building Regulations 2010 (2019 edition), Section 8 details the requirement and purpose for which a cavity barrier should be installed.
CCL Masonry Stop Socks comply with the robust details accepted to provide a solution which satisfies the Approved Document E 2003 (2015 edition) of the Building Regulations relating to the transmission of sound.

Fixing:

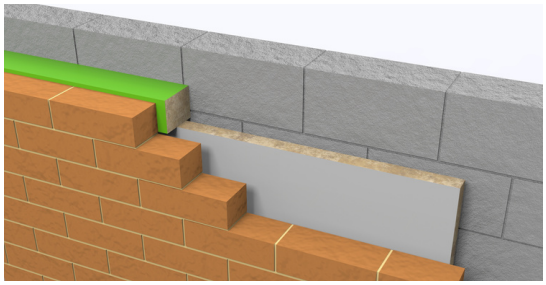
CCL Masonry Stop Socks are supplied 10mm to 15mm thicker than the cavity in which they are to be installed and are friction fitted during the brickwork process.

During vertical installation it is advisable to place a length of damp proof course between the cavity stop sock and the outer leaf.

During horizontal installation it is advisable to protect the Masonry Stop Sock with a damp proof course or cavity tray immediately above with a minimum 100mm upstand.

Special attention must be paid to the joints to ensure these are very closely butted. Cavity barriers may fail at the joints if a gap is left.

The Cavity Barrier should fully fill the whole cavity as shown in Diagram (B) below.



Barriers should be tightly butt jointed. The Cavity Barrier should fully fill the whole cavity as shown in Diagram (B) to the left.

Diagram B

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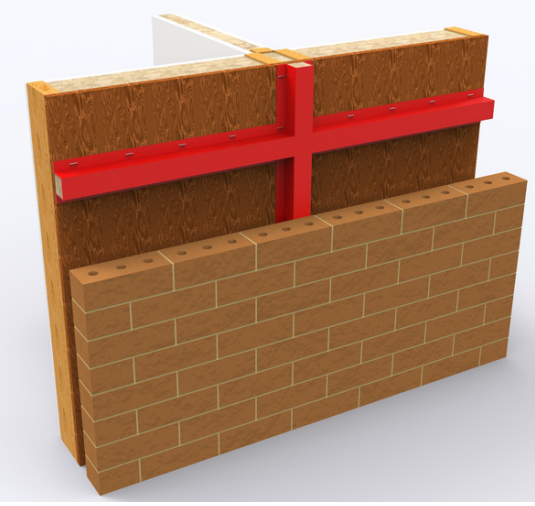
TIMBER CAVITY BARRIER



DESCRIPTION:

CCL Timber Cavity Barrier consists of a length of flexible mineral wool slab fully enclosed in polythene with flanges on each side for initial fixing purposes

PURPOSE:

CCL Timber Cavity Barriers are designed to prevent fire penetration and minimise sound transmission through the wall cavities of timber framed buildings.

BENEFITS:

- Meet full Building Regulations
- Fire, thermal and acoustic solution
- Simple to install
- Water repellent
- Maintenance free

Specification

Dimensions

CCL Timber Cavity Barriers are supplied in 1200mm lengths and are factory cut to suit cavity widths from 50mm to 150mm. Cavities wider than 150mm can be accommodated, although CCL Firestop Slab may be a more suitable application.

Standards & Performance:

The mineral wool core of a CCL Timber Cavity Barrier achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.
The correct use of a CCL Timber Cavity Barrier will exceed the requirement for a 30 minute cavity fire barrier as defined in Approved Document B of the Building Regulations 2010 (2019 edition) Table 3 of Appendix B.
The product has been independently tested adopting procedures and criteria from BS476:part 20:(1987) and achieved a 1 hour fire resistance.
Approved Document B of the Building Regulations 2010 (2019 edition), Section 8 details the requirement and purpose for which a cavity barrier should be installed.
CCL Timber Cavity Barriers comply with the robust details accepted to provide a solution which satisfies the Approved Document E 2003 (2015 edition) of the Building Regulations relating to the transmission of sound.

Fixing:

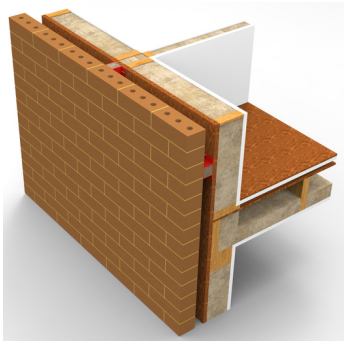
CCL Timber Cavity Barriers do not rely on their polythene flanges to hold them in place. They are supplied 10mm to 15mm thicker than the cavity in which they are to be installed. This ensures a tight fit as they are held in place by compression between the inner leaf and outer brickwork.

During vertical installation, both flanges are fixed to the inner timber sheathing using non-corrosive clout nails or staples at 150mm centres.

During horizontal installation the upper flange only is stapled or nailed to the inner timber sheathing.

The breather membrane should be cut to overlap the upper flange of the Timber Cavity Barrier.

Special attention must be paid to the joints to ensure that these are very closely butted. Cavity barriers may fail at the joints if a gap is left. The Cavity Barrier should fully fill the whole cavity.



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INDEPENDENT MANUFACTURERS OF THERMAL, ACOUSTIC & FIRE SOLUTIONS

HOUSING

Data Sheet 1004

POLYCOR F/R INSULATED DPC CAVITY CLOSER

DESCRIPTION:

Polycor F/R Insulated DPC Cavity Closer consists of a length of non combustible, flexible mineral wool slab fully bonded to a polyethylene damp proof course. The damp proof course has a 40 mm flange on each long side and a 100mm flange on one end.

PURPOSE:

Polycor F/R Insulated DPC Cavity Closers are a compression fit solution designed to reduce cold bridging around door and window frames along with minimising sound transmission along cavities of external walls.

BENEFITS:

- Meet full Building Regulations
- Fire, thermal and acoustic solution
- Simple to install
- Integral damp proof course
- Maintenance free

Specification

Dimensions

GAP	DIMENSIONS
• 10mm	25x100/165x1200mm
• 10mm	25x150/225x1200mm
• 20mm	35x100/165x1200mm
• 20mm	35x150/225x1200mm
• 30mm	45x100/165x1200mm
• 30mm	45x150/225x1200mm
• 40mm	55x100/165x1200mm
• 40mm	55x150/225x1200mm
• 50mm	65x100/165x1200mm
• 50mm	65x100/225x1200mm
• 75mm	90x100/150x1200mm
• 75mm	90x150/225x1200mm
• 100mm	120x100/165x1200mm
• 100mm	120x150/225x1200mm

[* Bespoke requests to customer specification available]

Standards & Performance:

The mineral wool insulation achieves a fire classification of Euroclass A1 and has a thermal conductivity of 0.035 W/mK. The DPC conforms to BS6515 (1984). Insulated DPC Cavity Closers conform to the 2000 Building Regulations (2006 edition).

The product has been independently tested adopting procedures and criteria from BS476 : part 20 : (1987) and achieved 1 hour fire resistance.

Fixing:

Polycor FR Insulated DPC Cavity Closer should be fitted during the building process prior to the installation of door and window frames.
This product should be fitted DPC side against the inner face of the outer brickwork, with one of the 40mm flanges folded against the door or window frame in the normal way, and with the other 40mm flange remaining flat against the inner face of the outer brickwork.
If more than one length of Insulated DPC Cavity Closer is required, it should be fitted with the 100mm flange at the bottom and with the next closer forming a close butt joint over the flange.
The top of the Insulated DPC Cavity Closer should be sealed to the underside of the lintel or protected behind a cavity tray.

Handling/Storage:

Polycor FR Insulated DPC Cavity Closers are supplied in strong polyethylene bags for on site protection. Care should be taken to keep the product dry prior to installation.

Some local delamination may occur during handling.
This does not detract from the performance of the product.

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POLYCOR INSULATED DPC CAVITY CLOSER

DESCRIPTION:

Polycor Insulated DPC Cavity Closer consists of closed cell low density polyethylene foam fully bonded to a polyethylene damp proof course.

PURPOSE:

Polycor Insulated DPC Cavity Closers are designed to reduce cold bridging around doors and window frames. They are generally used where a traditional block return is used to close the cavity.

BENEFITS:

- Meet full Building Regulations
- DPC conforms to BS6515
- Simple to install
- Integral damp proof course
- Maintenance free

Specification

Dimensions

Roll Length: 10 metres

Insulation width: 100mm and 140mm

Insulation thickness: 17mm

DPC width: 165mm and 225 mm

Standards & Performance:

The DPC conforms to BS6515 (1984)

The DPC is embossed to aid mortar adhesion

Insulated DPC Cavity Closers conform to the 1995 Building Regulations when installed correctly.

The closed cell polyethylene foam has a thermal conductivity of 0.034 W/mK.

The product is manufactured from CFC and HCFC free material

Fixing:

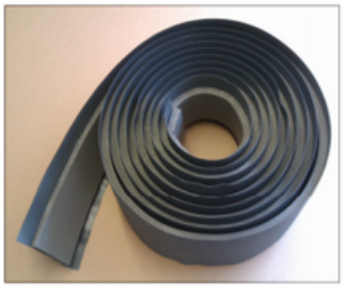
Polycor Insulated DPC Cavity Closer should be fitted during the building process prior to the installation of door and window frames.
This product should be fitted DPC side against the inner face of the outer brickwork, with one of the flanges folded against the door or window frame in the normal way, and with the other flange remaining flat against the inner face of the outer brickwork.
If more than one length of Insulated DPC Cavity Closer is required, or wherever there is a joint between two pieces they should be fitted with a flange at the bottom and with the next closer forming a close butt joint over the flange.
The top of the Insulated DPC Cavity Closer should be sealed to the underside of the lintel or protected behind a cavity tray.

Handling/Storage:

Polycor DPC Cavity Closers are supplied in strong polyethylene bags for on site protection.

Care should be taken to keep the product dry prior to installation and it is not recommended to store the product in direct sunlight.

Some local delamination may occur through handling. This will not, however, detract from the performance of the product.



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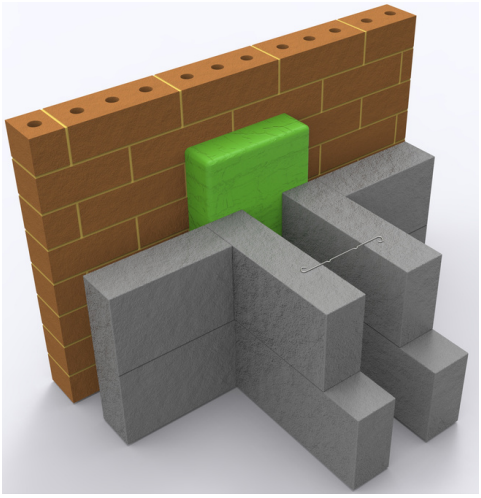
PARTY WALL SOCK

Diagram A



DESCRIPTION:

CCL Party Wall Sock consists of a length of flexible mineral wool slab fully enclosed in polythene.

PURPOSE:

CCL Party Wall Sock is designed to minimise sound transmission and fire penetration through the wall cavity adjacent to separating floors.

BENEFITS:

- Meet Building Regulations
- Complies with Robust details Part E
- Fire, thermal and acoustic solution
- Simple to install
- Water repellent
- Maintenance free

Specification

Dimensions

CCL Party Wall Socks are supplied in 1200m lengths, normally 300mm or 380mm wide, and are factory cut to suit cavity widths from 50mm to 150mm.

Standards & Performance:

The mineral wool core of a CCL Party Wall Sock achieves a fire classification of Euroclass A1 as defined in BS EN 13501 - 1.
The correct use of a CCL Party Wall Sock will exceed the requirement to provide a 30 minute cavity fire barrier as defined in Approved Document B of the Building Regulations 2010 (2019 edition) Table B3 of Appendix B.
The product has been independently tested adopting procedures and criteria from BS476 : part 20 : (1987) and achieved 1 hour fire resistance.
Approved Document B of the Building Regulations 2010 (2019 edition), Section 8 details the requirement and purpose for which a cavity barrier should be installed.
CCL Party Wall Socks comply with the robust details accepted to provide a solution which satisfies the Approved Document E 2003 (2015 edition) of the Building Regulations relating to the transmission of sound.

Fixing:

CCL Party Wall Socks are supplied 10mm to 15mm thicker than the cavity in which they are to be installed and friction fitted during the brickwork process.

During vertical installation it is necessary to place a length of damp proof course between the Party Wall Sock and the outer leaf.

During horizontal installation it is advisable to protect the Party Wall with a damp proof course or proprietary cavity tray immediately above with a minimum 100mm upstand.

Special attention must be paid to the joints to ensure that these are very closely butted. Cavity barriers may fail at the joints if a gap is left.

The Party Wall Sock should bridge the whole cavity as shown in Diagram B below.

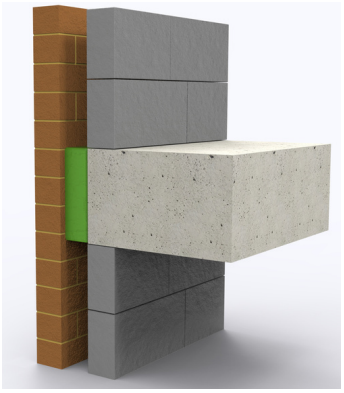


Diagram B

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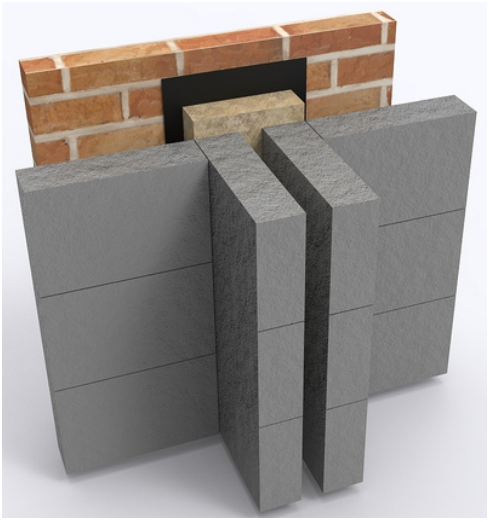
PARTY WALL DPC



DESCRIPTION:

Party Wall DPC consists of a length of flexible mineral wool slab fully bonded to 500 micron polyethylene damp proof course. The damp proof course has a 40mm flange on each long side and a 100mm flange on one end.

PURPOSE:

DPC Cavity Closer is designed to minimise sound transmission and prevent fire penetration through the wall cavity adjacent to separating floors.

BENEFITS:

- Meets Building Regulations
- Fire, thermal and acoustic solution
- Simple to install
- Integral damp proof course
- Maintenance free

Specification

Dimensions

Insulation length:	1200mm
Insulation width:	260mm / 300mm
DPC length:	1300mm
DPC width:	340mm / 380mm

Insulation thickness: To suit cavities from 50mm to 150mm

*Other sizes can be manufactured to order.

Standards & Performance:

The mineral wool insulation achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.
The DPC conforms to BS6515 (1984).
The correct use of Party Wall DPC will exceed the requirement to provide a 30 minute cavity fire barrier as defined in Approved Document B of Building Regulations 2010 (2019) edition Table 3 of Appendix B.
The product has been independently tested adopting procedures and criteria from BS476: part 20: (1987) and achieved 1 hour fire resistance.
Party Wall DPC complies with the robust details accepted to provide a solution which satisfies the Approved Document E (2003 Edition) of the Building Regulations relating to the transmission of sound

Fixing:

Party Wall DPC should be fitted during the brickwork / blockwork stage of the building process. The product should be fitted with the DPC against the inner face of the outer brickwork with the 40mm flanges on both sides.
During vertical applications each length should be installed with 100mm flange at the bottom, with the next length forming a close butt joint over the flange. During horizontal applications the product should be supported by the wall ties that join the inner and outer leaf and is protected from above by the cavity tray system.

Handling/Storage:

Party Wall DPC is supplied in strong polyethylene outer bags and should be kept dry on site prior to installing.
Due to the flexible nature of the product some local delamination may occur during handling. This, does not, however, detract from the performance of the product.

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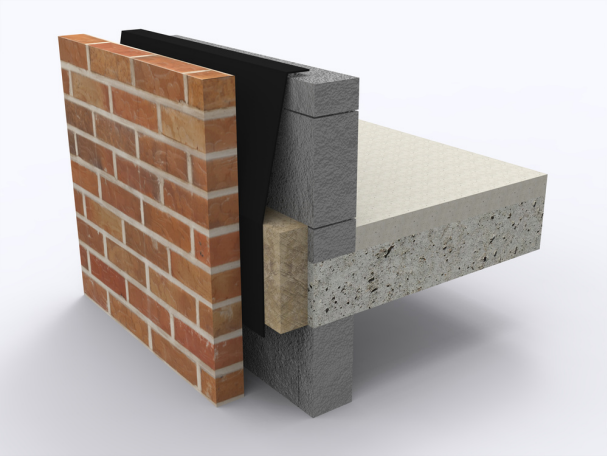
HORIZONTAL PARTY WALL DPC



DESCRIPTION:

Horizontal Party Wall DPC consists of a length of flexible mineral wool slab fully bonded to 500 micron polyethylene damp proof course. The damp proof course has a 40mm and 300mm flange on the long sides and a 100mm flange on one end.

PURPOSE:

Horizontal DPC Cavity Closer is designed to minimise sound transmission and prevent fire penetration through the wall cavity adjacent to separating floors.

BENEFITS:

- Meets Building Regulations
- Fire, thermal and acoustic solution
- Simple to install
- Integral damp proof course
- Maintenance free

Specification

Dimensions

Insulation length:	1200mm
Insulation width:	260mm/300mm
DPC length:	1300mm
DPC width:	600mm

Insulation thickness: To suit cavities from 50mm to 150mm

*Other sizes can be manufactured to order.

Standards & Performance:

The mineral wool insulation achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1.
The DPC conforms to BS6515 (1984).
The correct use of Horizontal Party Wall DPC will exceed the requirement to provide a 30 minute cavity fire barrier as defined in Table A1 of Appendix A to Approved Document B of Building Regulations 1991.
The product has been independently tested adopting procedures and criteria from BS476: part 20: (1987) and achieved 1 hour fire resistance.
Horizontal Party Wall DPC complies with the robust details accepted to provide a solution which satisfies the Approved Document E (2003 Edition) of the Building Regulations relating to the transmission of sound

Fixing:

Horizontal DPC Cavity Closer should be fitted during the brickwork / blockwork stage of the building process. The product should be fitted with the DPC against the inner face of the outer brickwork at the level of the separating floor.
The product is positioned with the wide DPC flange uppermost and embedded into the inner blockwork mortar layer.
The product should be supported by the wall ties that join the inner and outer leaf.

Handling/Storage:

Horizontal Party Wall DPC is supplied in strong polyethylene bags for onsite protection.
Care should be taken to keep the product dry prior to installation. Due to the flexible nature of the product some local delamination may occur during handling. This, does not, however, detract from the performance of the product.

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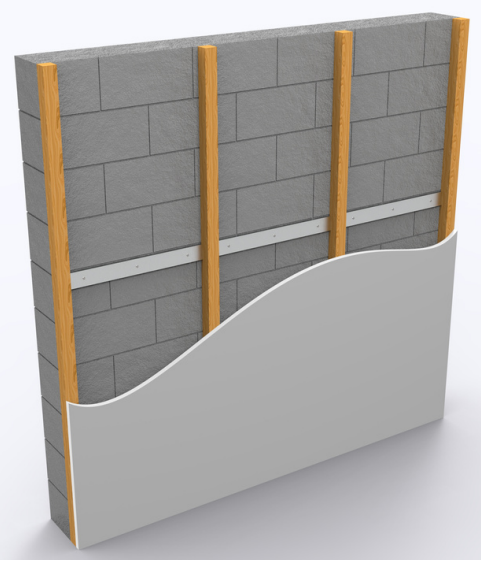
Building Systems

INTUMESCENT CAVITY BARRIERS



DESCRIPTION:

CCL Intumescent Cavity Barriers are flexible strips of high density, thermally expandable, graphite based mat enclosed in aluminium foil.

PURPOSE:

CCL Intumescent Cavity Barriers are designed to prevent fire penetration in cavities and gaps where there is a need for continuous ventilation. In the event of a fire, the intumescent reaction is triggered causing the material to expand unidirectionally to form a highly effective barrier.

BENEFITS:

- Allows continuous free air space
- Meets Building Regulations
- Simple to install
- Unaffected by moisture
- Maintenance free

Specification

Dimensions

CB30	2.3 x 30 x 1000mm
CB50	4.6 x 50 x 1000mm
CB70	4.6 x 70 x 1000mm

Different lengths are available upon request

Standards & Performance:

CCL Intumescent Cavity Barriers have been independently tested adopting procedures and criteria from BS476: part20: (1987) and achieved 1 hour fire resistance in a timber frame and up to 2 hours fire resistance in a non combustible construction.

The correct use of a CCL Intumescent Cavity Barrier will exceed the requirement for a 30 minute cavity fire barrier as defined in Table A6 of Appendix A to Approved Document B of the Building Regulations 1991.

Fixing:

CCL Intumescent Cavity Barriers are designed for use in cavities typically 15mm to 50mm wide*.

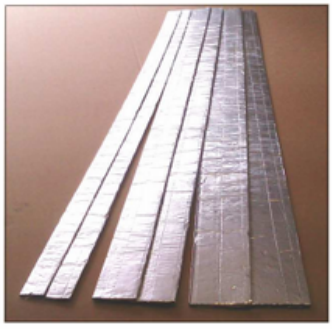
They are supplied with double sided tape pre-fixed to one face. This is to enable the installer to easily position the barrier prior to mechanical fixing.

The barriers should be fixed using panel pins, staples or screws with a maximum head diameter of 6mm.

All fixings should be located along the centre of the barrier, minimum 4 fixings per metre length.

Joints in the barrier should be tightly butted to form a continuous length.

*For cavities over 50mm or for rainscreen or façade applications, please contact our sales department or refer to our data sheet 'Rainscreen Cladding Barrier'



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EWI- RAILED SLAB & LAMELLA FIREBREAKS




Description

Railed Slab:

Mineral wool insulation boards that are mounted on to a metal track creating a drained cavity in timber / metal frame applications.

CCL can offer Knauf Insulation EWI Slab that has been precision cut to 600mm x 500mm board sizes with a pre-cut slot on all four edges.

The boards are supplied direct to site on pallets with a weather proof covering.

The boards are available from 40mm to 250mm thick although some thickness may be subject to a minimum order quantity.

Lamella Firebreaks:

Precision cut lengths of Knauf Insulation EWI Slab used to form firebreaks at party wall or floor junctions.

The slabs can be supplied with smooth edges for fixing directly to the substrate, or with a pre-cut slot on all four edges for drained cavity applications.

The product is supplied in 1200mm lengths, 200mm high, in widths from 30mm to 300mm and is delivered direct to site on weather proof pallets.

The minimum carriage paid order is one pallet. Thereafter, individual lengths can be ordered, reducing waste on site.

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BUILDING SYSTEMS

Data Sheet 2001

JOIST BARRIER

DESCRIPTION:

Joist Barrier consists of a length of semi-rigid mineral wool slab fully enclosed in polythene.

PURPOSE:

Joist Barrier is designed specifically to prevent fire penetration through the perimeter of a joisted floor forming a compartment.

BENEFITS:

- Meet full Building Regulations
- Fire and acoustic solution
- Simple to install
- Water repellent
- Maintenance free

Specification

Dimensions

Joist Barriers are supplied in 1200mm lengths and are factory cut to suit 92mm and 254mm floor joists.

Standards & Performance:

The mineral wool slabs used in the production of a Fusion Joist Barrier achieves a fire classification of Euroclass A1 as defined in BS EN 13501 - 1.

The product has been independently tested adopting procedures and criteria from BS476: part 20 (1987).

CCL Fusion Joist Barrier strips and blocks comply with the provisions of Approved Document B 2010 (2019 edition).

Fixing:

Joist Barriers are supplied slightly wider than the joist in which they are to be installed and are friction fitted into place.

They are also supplied thicker than the depth of the floor joist so around 30mm of barrier will protrude, further protecting the steel joist from heat.

Special attention must be paid to the joints to ensure that these are very closely butted.

Pallet Quantities:

92mm barrier - 16 per bag / 320 per pallet

254mm barrier - 8 per bag / 96 per pallet

THIS PRODUCT IS ONLY SUITABLE FOR INSTALLATION IN FUSION BUILDING SYSTEMS FLOOR JOISTS.

ONLY AUTHENTIC CCL FUSION JOIST BARRIERS ARE TO BE INSTALLED INTO FUSION BUILDING SYSTEMS FLOOR JOISTS

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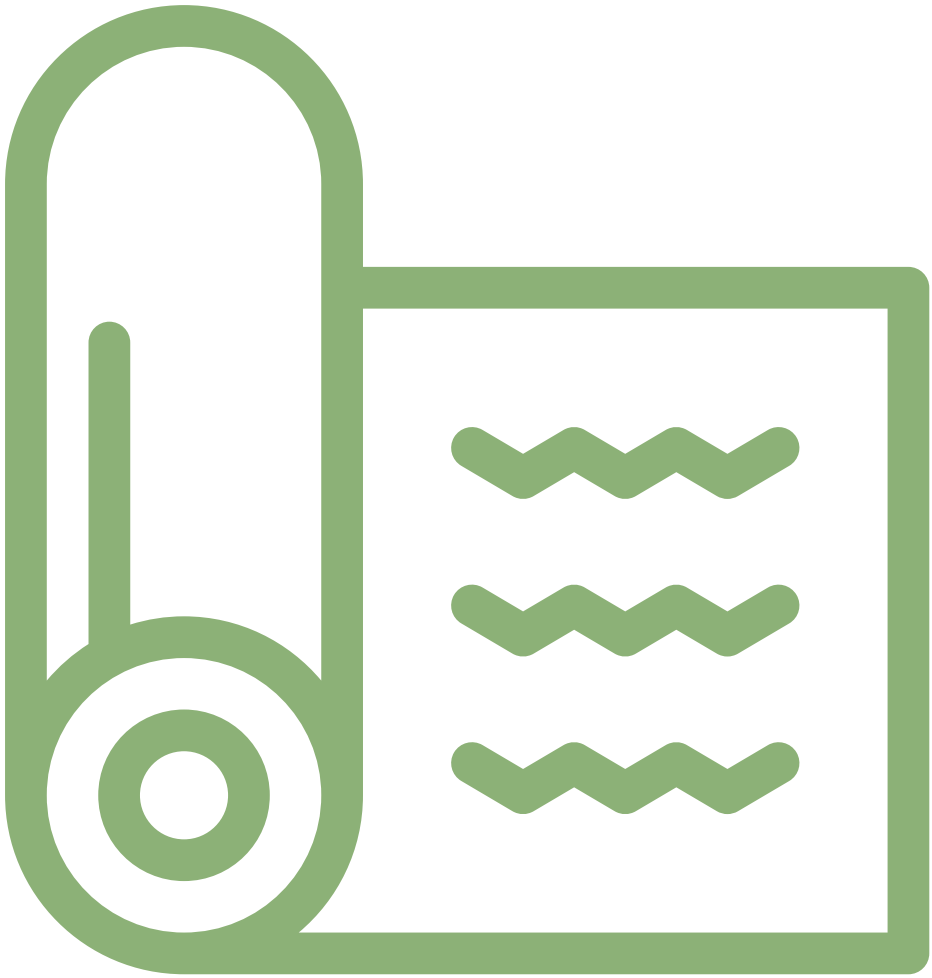

Interior

CONCEPT CCL CONVERSIONS LTD

INDEPENDENT MANUFACTURERS OF THERMAL, ACOUSTIC & FIRE SOLUTIONS

CEILING, ROOF VOID & INTERIOR PRODUCTS

DESCRIPTION:

The CCL range of ceiling and interior products are designed to provide thermal, fire and acoustic insulation for suspended ceiling systems, roof voids and interior partition applications.

They consist of a variety of mineral wool rolls and slabs fully enclosed in polythene or faced on one or both sides with glass tissue and foil.

Due to the diversity in dimensions and combinations of facing, whilst offering the more popular as part of our standard range, we have a dedicated production facility specialising in bespoke products and short production runs.

Please contact our sales office with your specific requirement for further information.

Specification

Faced Rock Fibre Pads & Slabs

33, 45, 60, 80 and 100kg density rock fibre core
Non-combustible to BS476: part 4: 1970 (1984)
Thermal conductivity: 33kg density 0.037 W/mK
45kg to 100kg density 0.035 W/mK

Facings:

- Plain or reinforced aluminium foil on one or both sides
- Plain or reinforced aluminium foil enclosed
- Black glass tissue on one or both sides
- White glass tissue on one or both sides
- Faced on one side, all edges and return with plain or reinforced Class '0' aluminium foil, with black or white glass tissue on reverse

Dimensions
Thickness from 8mm to 100mm in 1mm increments.
Sizes available to fit nominal 300, 600, 1200 and 1500mm suspended ceiling systems.
Custom made pads are available in sizes, shapes and finishes to suit any non-standard metal ceiling system regardless of configuration.

Polythene Enclosed Rock Fibre

Nominal 23kg or 45kg density core
Non-combustible to BS476: part 4: 1970 (1984)
Thermal Conductivity 0.040 W/mK (23kg)
0.037 W/mK (45kg)
250 gauge polythene covering.

Polythene Enclosed Glass Fibre

Nominal 10kg density glass fibre core
Non-combustible to BS476: part 4:1970 (1984)
Thermal Conductivity 0.044 W/mK
250 gauge polythene covering

*Please contact our sales department for further details of the wide variety of dimensions and densities available to order, together with our short run and bespoke fabrication services.

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COLD WATER TANK JACKETS

DESCRIPTION:

The CCL range of cold water tank lagging jackets consist of lengths of light weight glass wool insulation that has been completely enclosed in black perforated polythene.

PURPOSE:

Cold water tank lagging jackets are designed to help protect cold water storage tanks in traditional domestic lofts against freezing.

BENEFITS:

- Two piece lagging jacket
- Helps protect against freezing
- Easy to install
- Meets requirements of Bylaw 30
- Rigid or flexible lid

Specification

Dimensions

The range of lagging jackets are manufactured in sizes to suit the tank sizes detailed in the chart below. The lagging jackets are supplied with or without a rigid lid insert. Lagging jackets to suit bespoke tanks are available upon request.

Rectangular Tanks	Tank Size L x W x H (inches)
10/4	18 x 12 x 12
20/15	26 x 21 x 17
30/20	27 x 21 x 20
40/25	29 x 23 x 21
60/40	40 x 25 x 24
70/50	46 x 25 x 24

Circular Tanks	Tank Size Dia x H (inches)
4 gallon	19 x 11
25 gallon	27 x 21
50 gallon	33 x 25
70 gallon	38 x 27
100 gallon	42 x 30

Standards & Performance:

CCL cold water tank lagging jackets are designed to aid compliance with Water Byelaw 30 which calls for cisterns storing water for domestic purposes to be insulated against heat and frost.

Specification:

The CCL range of cold water tank jackets are manufactured using a low density, flexible, glass wool insulation that is manufactured to BS3533:1981. The insulation is non-combustible, classified as Euroclass A1 to BS EN ISO 13501 - 1.

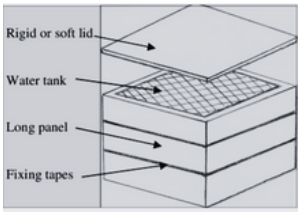
The thermal conductivity is 0.040W/mK.

The outer covering is manufactured from 38 micron, micro perforated polythene film which encourages good recovery of the insulation from any compression that may have occurred during packaging and transportation.

Each jacket is individually wrapped and comes complete with two lengths of nylon ribbon and a label clearly displaying the tank size and easy to follow instructions.

Installation:

CCL tank jackets are supplied in two pieces with separate fixing tapes.
Unroll the long flexible panel and shake gently to allow the insulation filling to recover.
Position the panel around the body of the tank, allowing for pipes and fittings, and secure with the coloured fixing tapes as illustrated. Be careful not to over tighten so the insulation is not compressed.
Place the lid panel on to the tank lid and tuck in the flanges carefully, ensuring there are no gaps around the edge of the tank.



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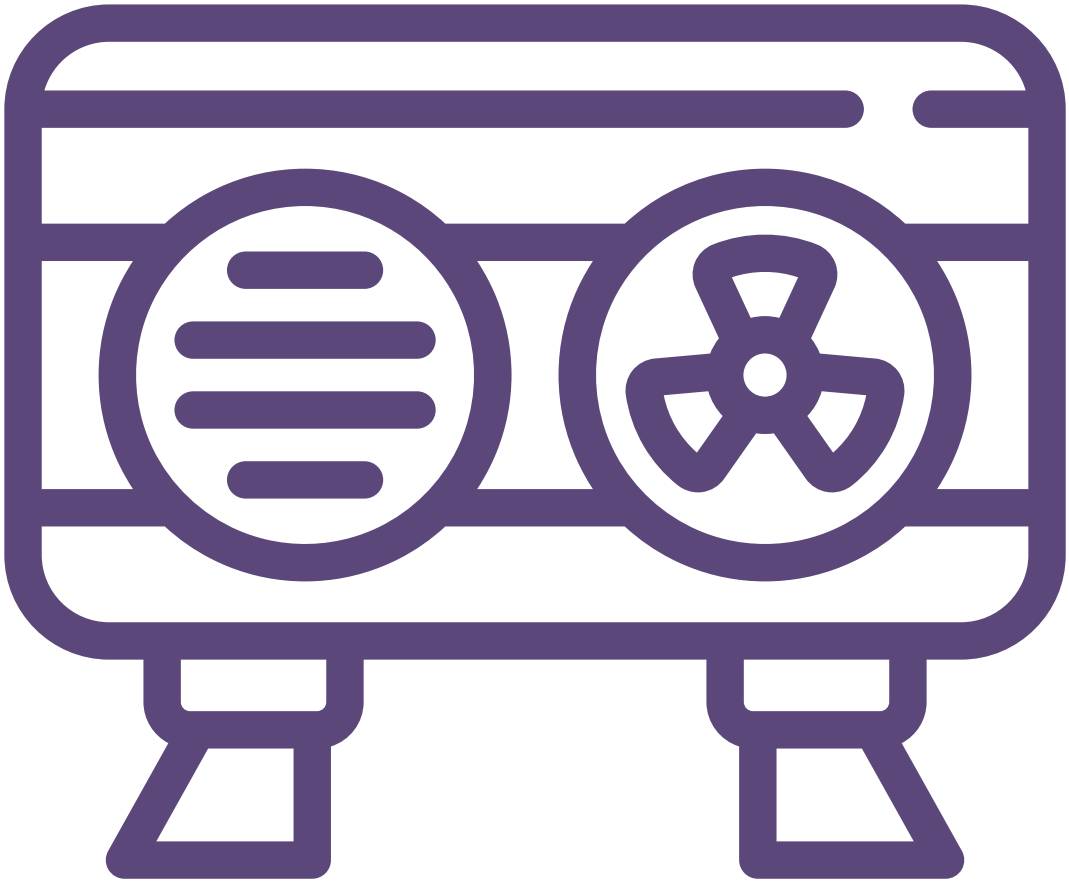
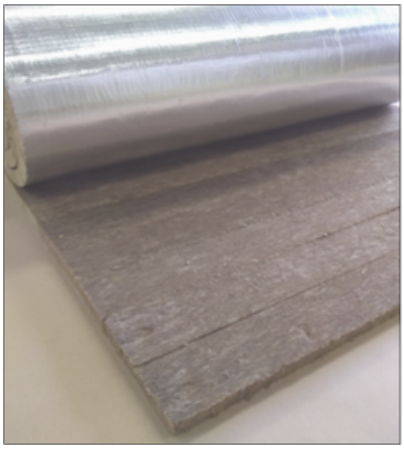


HVAC

LAMELLA ROLL



DESCRIPTION:

CCL Lamella Roll consists of lengths of flexible or semi-rigid mineral wool slabs bonded to a reinforced aluminium foil facing.

PURPOSE:

Lamella Rolls are designed for a multitude of thermal and acoustic applications around large pipes, ducting, tanks and vessels. They offer a higher level of compressive strength and integrity of thickness than standard insulation rolls particularly around the corners of rectangular objects.

BENEFITS:

- Easy to handle and install
- Acoustic and thermal insulation
- Non-combustible
- Multi purpose application
- Maintenance free

Specification

Dimensions

Thicknes s	Width	Length
25mm	1200mm	10.0m
30mm	1200mm	8.1m
40mm	1200mm	6.0m
50mm	1200mm	5.0m
60mm	1200mm	4.0m
75mm	1200mm	4.0m
100mm	1200mm	2.5m
120mm	1200mm	1.2m

Lamella Rolls are available in 45kg, 60kg, 80kg and 100kg density insulation. Other thicknesses and lengths are available on request and are made to order.

Standards & Performance:

Lamella rolls are manufactured from mineral wool that is classified as Euroclass A1 to BS EN ISO 13501-1, non-combustible to BS 476: Part4: 1970 (1984), and are Class 1 Surface Spread of Flame to BS476: Part 7 1997 and Class 0 to the Building Regulations.
Lamella Rolls represent no known threat to the environment and have zero ozone depletion potential and zero global warming potential.
Lamella Rolls are non-wicking when tested to BS 2972 : 1989 : Section 12.
When exposed to 90% relative humidity at 20 degrees Celsius they absorb less than 0.004% of moisture and have a vapour resistivity of 5.00 MNs/g.m.
Lamella Roll are odourless, non-hygroscopic, rot proof, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
The thermal conductivity of the mineral wool used in the production of Lamella Rolls is 0.035W/mK.

Handling/Storage:

Lamella Rolls are easy to handle, cut and install. They are supplied in polythene bags on pallets that are designed for short term protection only. For longer term protection they should be stored indoors or under cover and off the ground.

Accessories:

A range of self adhesive aluminium foil for joint fixing is available on request in 50mm, 75mm, 100mm and 150mm widths for securing and sealing joints.

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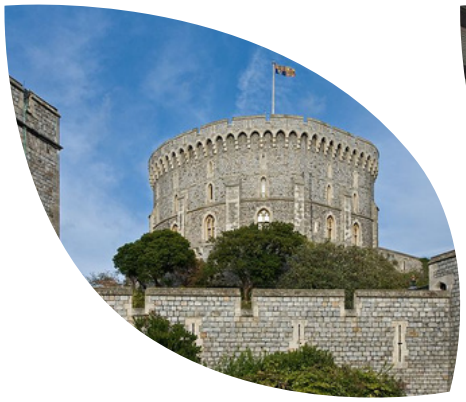
PROJECTS

Whilst every project and customer is equally as important to us here at **CCL** Thermal, Acoustic & Fire Solution Manufacturers we are particularly proud of the projects pictured below that we were delighted to have played a part in.

A particular favourite for us was the Concorde Museum in which we were honoured to have helped preserve a special piece of aviation history.

We are delighted to have worked on some magnificent projects over the years knowing that our skills, knowledge and materials have been placed on such iconic architectural structures.



Windsor Castle

The Concorde Museum

West London Academy

To see more of our projects please visit: **www.concept-conversions.co.uk**

Portishead

Kings Cross Ticket Hall

The Shard

KEY SERVICES

At CCL Thermal, Acoustic & Fire Solution Manufacturers we strive to be the most flexible insulation solution provider in our industry. Our in-house technical expertise allows us to offer free on-site training tailored to the products our customers are using. Therefore, helping ensure installation techniques maintain the certificated fire safety of the product.

With our manufacturing facility based in Northamptonshire, we are ideally situated for easy access to the arterial motorway network, enabling us to offer an efficient national delivery service on all sizes of orders from single packages through to fully palletised loads.

We offer full traceability on all our products and operate a rigorous quality management system through ISO9001.

Design Projects

All projects, whether large or small will be awarded equal attention to detail. We take time to map out the key features early on in the process and create a schedule that best suits any constraints there may be.

Winning Strategies

We accompany customers throughout the lifecycle of their project, from inception through to installation, carrying out on-site training and final sign off should they require.

Track Analytics

We track projects from receipt of raw materials through the manufacturing process and on to delivery during our twice daily meetings with our heads of production and transport. With our full traceability and quality management procedures we offer customers extra reassurance along the way.

Client Management

We believe our reputation for friendly customer service is second to none. We respond quickly to customer requests and communicate regularly with them to ensure all parties and stakeholders are kept fully in the picture at all times.


Concept
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Your chosen
partner
for thermal,
acoustic
and fire
solutions.

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CONCEPT CCL CONVERSIONS LTD

INDEPENDENT MANUFACTURERS OF THERMAL, ACOUSTIC & FIRE SOLUTIONS