Promat

Compartmentation

Passive Fire Protection

Smoke Barrier and Fire Barrier

Technical manual

Hong Kong version

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2024-11

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Contents

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The purpose of a cavity or smoke barrier is to prevent the spread of smoke and flame from penetrating and/or moving within a concealed space in a fire compartment.

Regulatory documents provide:

- → Guidance on where such barriers should be located within hidden voids in a building,
- → Examples of deemed-to-satisfy barriers for voids in or above stud walls or partitions, and
- → Direction on where cavity and smoke barriers are applicable in open and large areas, e.g. atrium of which the requirement to limit the smoke and flame movement is required.

Defining “cavity barriers”

Cavity barriers are used in areas where the cavity existed in a concealed space of which the fire can spread through undetected, e.g. the junction between a wall and a floor slab (roof above the false ceiling), the existing cavity above a roller shutter.

If a cavity barrier in a concealed space coincides with a compartment wall or floor it will normally be required to provide the same fire performance as the wall or floor.

Definitions of a cavity barrier are also dependent on the requirements of local building regulations.

Defining “smoke barriers”

In fire situations, smoke generally kills more people faster than exposure to heat, flames or structural collapse. Most modern buildings today have an engineered smoke control system which frequently involves the use of smoke reservoirs by means of constructing smoke channelling screens and curtains. Smoke reservoirs are used to prevent the lateral spread of smoke and to create a reservoir in which to collect smoke for removal.

Purposes of smoke barriers are usually to restrict or to prolong the movement of such smoke. They are dropped down bulkheads at depth designated by the engineers and are positioned to form smoke reservoirs where the depth will prevent spill over of the smoke plum.

Parapet and spandrel walls

A parapet panel is a low standing wall above a roof, on top of either an external wall or a fire separating wall.

Parapet walls are supposed to prevent fire venting through the roof on one property and crossing over the separating wall down into any adjacent property.

Spandrel panels are supposed to deflect fire and prevent spread of flames via the ends of floor slabs. They are generally used as part of curtain walling systems. The panel protects vertically up from the top of a floor slab, or down from the underside of a floor slab.

Spandrel walls are designed to form a separator at any part of a window or an opening in an external wall above another opening in the storey below.

Any structural element to which the spandrel wall system is affixed must have a minimum equivalent fire resistance.

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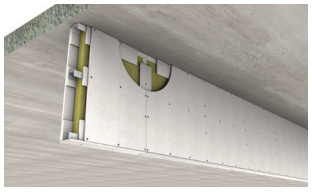
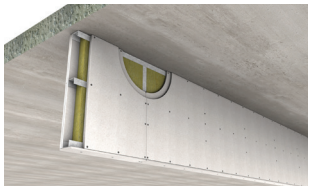
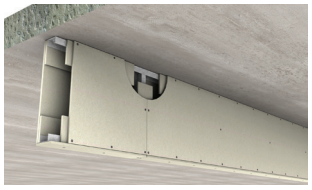
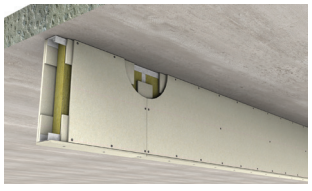
System type	Model number	Fire resistance performance	Test standard	Test assessment report no.	Page no.
 2-hour fire rated PROMATECT®-H smoke barrier (Integrity only)	PH.71.12E	FRR -/120/-	BS 476: Part 22: 1987	WF 156468 Issue 3	7
 2-hour fire rated PROMATECT®-H smoke barrier	PMF.71.60	FRR -/60/60	BS 476: Part 22: 1987	WF 330487 Issue 3	8
 4-hour fire rated PROMATECT®-H smoke barrier (Integrity only)	PH.71.24E	FRR -/240/-	BS 476: Part 22: 1987	WF 156468 Issue 3	9
 4-hour fire rated PROMATECT®-H smoke barrier	PMF.71.12	FRR -/120/120	BS 476: Part 22: 1987	WF 330487 Issue 3	10
 2-hour fire rated PROMINA®-60 smoke barrier (Integrity only)	PMF.71.12E	FRR -/120/-	BS 476: Part 22: 1987	WF 353174 Issue 2	11
 2-hour fire rated PROMINA®-60 smoke barrier	PMF.71.12	FRR -/120/120	BS 476: Part 22: 1987	WF 353174 Issue 2	12

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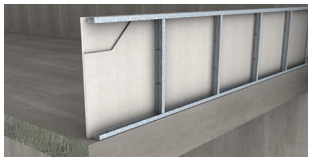
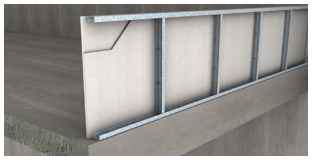
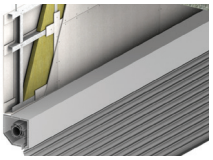
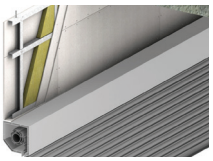
System type	Model number	Fire resistance performance	Test standard	Test assessment report no.	Page no.
 1-hour fire rated PROMATECT®-H spandrel wall Suspended	PMF.72.60	FRR -60/60	BS 476: Part 22: 1987	WF 330110 Issue 3	13
 1-hour fire rated PROMATECT®-H spandrel wall Upstand	PMF.72.60	FRR -60/60	BS 476: Part 22: 1987	WF 330110 Issue 3	14
 2-hour fire rated PROMATECT®-H spandrel wall Suspended	PMF.72.12	FRR -120/120	BS 476: Part 22: 1987	WF 330110 Issue 3	15
 2-hour fire rated PROMATECT®-H spandrel wall Upstand	PMF.72.12	FRR -120/120	BS 476: Part 22: 1987	WF 330110 Issue 3	16
 2-hour fire rated PROMATECT®-H smoke and fire barrier above roller shutter	PMF.71.12	FRR -/120/120	BS 476: Part 22: 1987	WF 330487 Issue 3	17
 4-hour fire rated PROMATECT®-H smoke and fire barrier above roller shutter	PMF.71.24	FRR -/240/240	BS 476: Part 22: 1987	WF 330487 Issue 3	18
 4-hour fire rated PROMATECT®-S smoke and fire barrier above roller shutter (Integrity only)	PS.71.24E	FRR -/240/-	BS 476: Part 22: 1987	BRE P104858-1111 Issue 1	19

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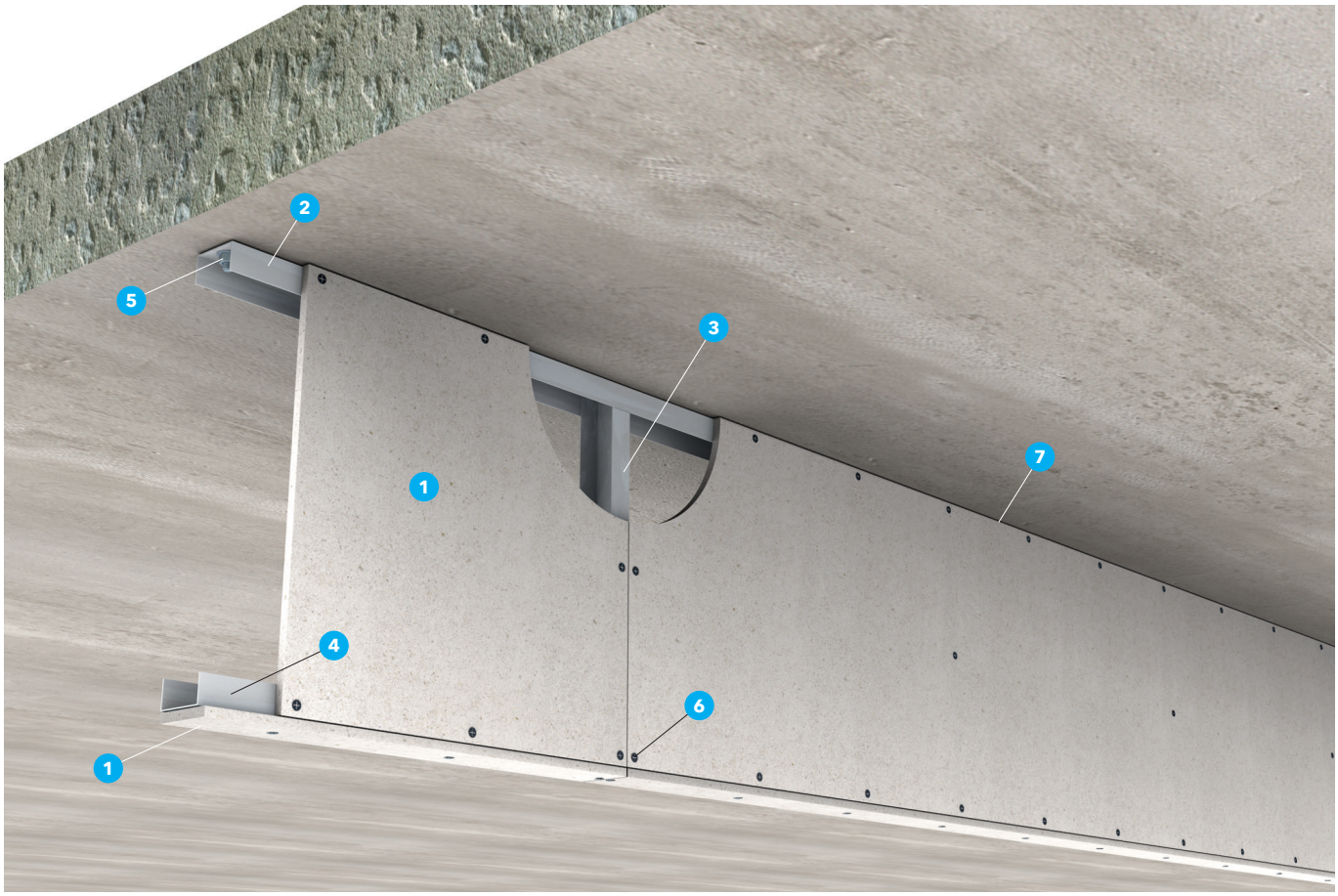
2-hour fire rated PROMATECT®-H smoke barrier (Integrity only)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/-	PH.71.12E	9mm	Not required	BS 476: Part 22: 1987	WF 156468 Issue 3



1. One layer of 9mm thick PROMATECT®-H board at one side and bottom of the system.
2. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
3. Steel C-channel vertical stud, min. 50mm x 50mm, thickness refer to below table.
4. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
5. Steel anchor bolt, sizes refer to below table.
6. M4 self-tapping screws at nominal 200mm centres horizontally and at nominal 300mm centres vertically.
7. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.

120 minutes barrier	Maximum height of barrier (meter)		
	2.44	3.66	4.00
Minimum top channel thickness	1.2mm	1.6mm	1.6mm
Minimum stud thickness	1.2mm	1.6mm	1.6mm
Minimum top channel to stud fixings	4 x M4	4 x M5	4 x M5
Minimum size of top channel fixing anchor	M6	M8	M8
Minimum distance of top channel fixing anchor	500mm	500mm	500mm

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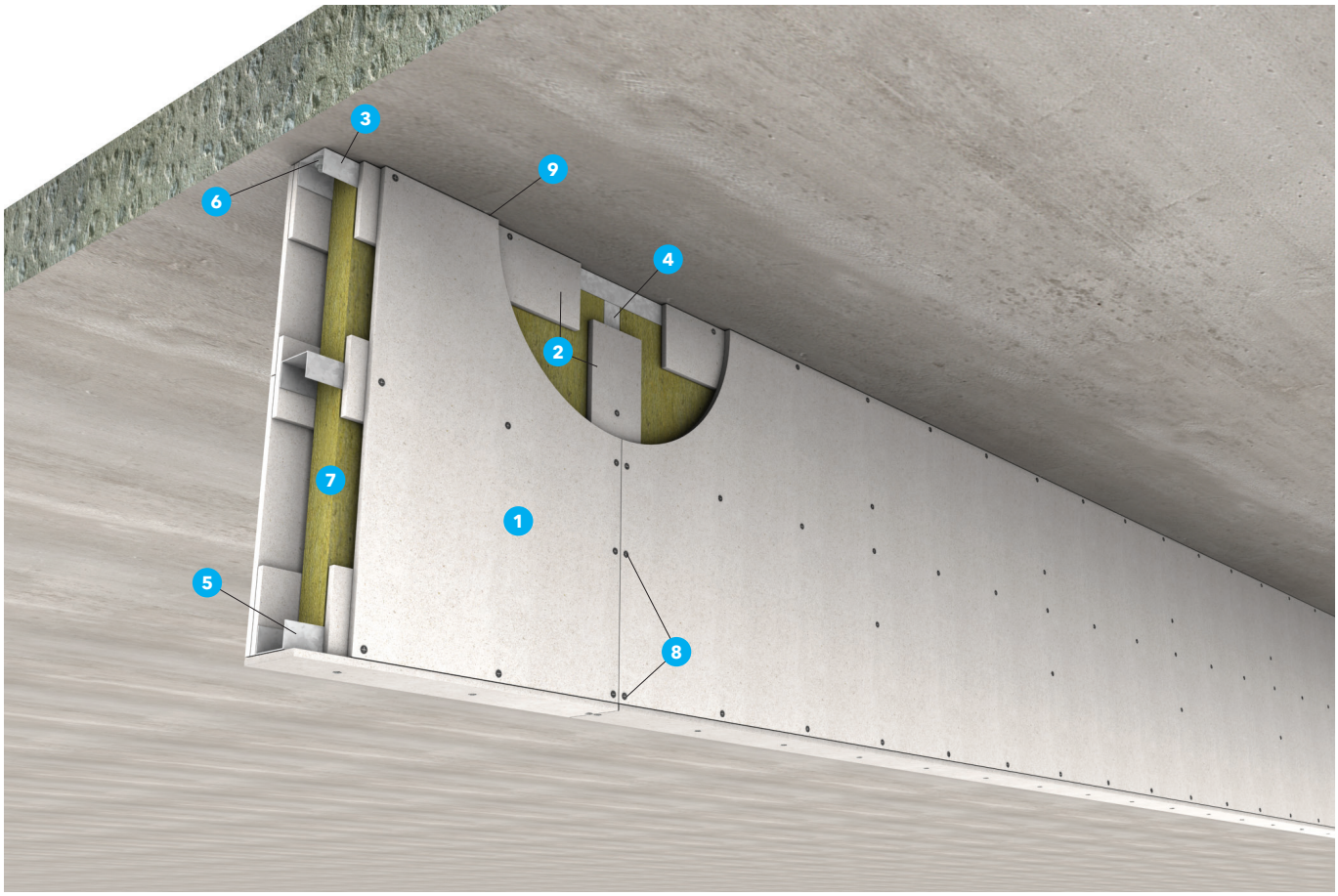
2-hour fire rated PROMATECT®-H smoke barrier

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/120	PMF.71.12	9mm	One layer 75mm x 100kg/m³	BS 476: Part 22: 1987	WF 330487 Issue 3



1. One layer of 9mm thick PROMATECT®-H board at both sides and bottom of the system.
2. 100mm x 9mm thick PROMATECT®-H cover strips, fixed to both sides of the framing prior to installing the main boards.
3. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
4. Steel C-channel vertical stud, min. 50mm x 50mm, thickness refer to below table.
5. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
6. Steel anchor bolt, sizes refer to below table.
7. One layer of 75mm x 100kg/m³ mineral wool infill to cavity between boards.
8. M4 self-tapping screws at nominal 200mm centres.
9. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.

120 minutes barrier	Maximum height of barrier (meter)				
	1.0	2.0	3.0	4.0	5.0
Minimum top channel thickness	0.8mm	1.0mm	1.5mm	2.5mm	3.0mm
Minimum stud thickness	0.8mm	1.0mm	1.5mm	2.5mm	3.0mm
Minimum top channel to stud fixings	4 x M4	4 x M6	4 x M6	4 x M6	4 x M6
Minimum size of top channel fixing anchor	M8	M8	M8	M10	M12
Minimum distance of top channel fixing anchor	500mm	400mm	250mm	250mm	250mm

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4-hour fire rated PROMATECT®-H smoke barrier (Integrity only)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/240/-	PH.71.24E	2 x 9mm	Not required	BS 476: Part 22: 1987	WF 156468 Issue 3

1. Two layers of 9mm thick PROMATECT®-H board at one side and bottom of the system.
2. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
3. Steel C-channel vertical stud, min. 50mm x 50mm, thickness refer to below table.
4. Steel C-channel bottom track, min. 50mm x 50mm x 1.2mm thick.
5. Steel anchor bolt, sizes refer to below table.
6. M4 self-tapping screws at nominal 200mm centres horizontally and at nominal 300mm centres vertically.
7. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.

240 minutes barrier	Maximum height of barrier (meter)		
	2.44	3.66	4.00
Minimum top channel thickness	2.5mm	3.0mm	3.3mm
Minimum stud thickness	2.5mm	3.0mm	3.3mm
Minimum top channel to stud fixings	4 x M6	4 x M8	4 x M8
Minimum size of top channel fixing anchor	M8	M10	M10
Minimum distance of top channel fixing anchor	500mm	400mm	400mm

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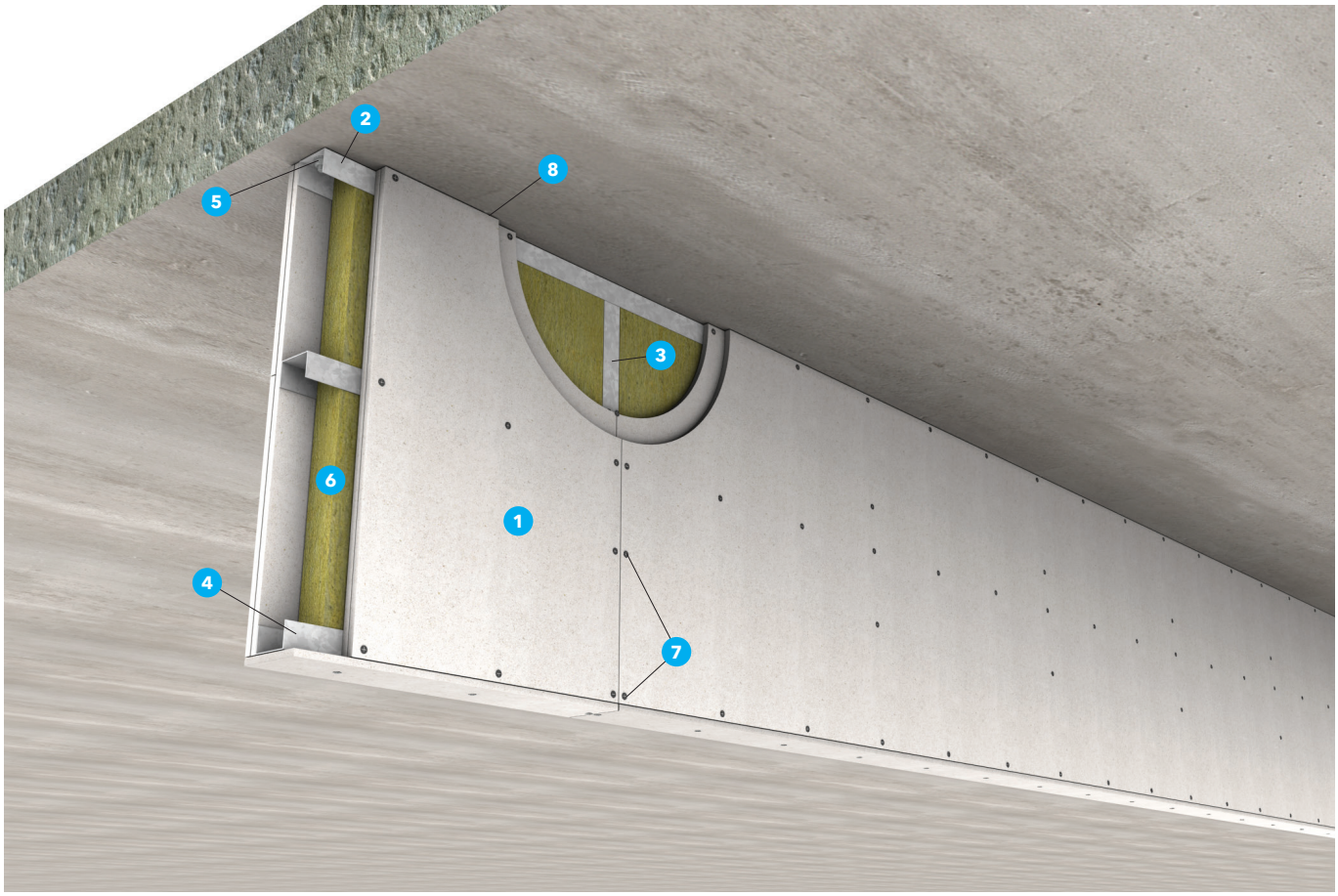
4-hour fire rated PROMATECT®-H smoke barrier

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/240/240	PMF.71.24	2 x 9mm	Two layers 50mm x 100kg/m³	BS 476: Part 22: 1987	WF 330487 Issue 3



1. Two layers of 9mm thick PROMATECT®-H board at both sides and bottom of the system.
2. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
3. Steel C-channel vertical stud, min. 50mm x 50mm, thickness refer to below table.
4. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
5. Steel anchor bolt, sizes refer to below table.
6. Two layers of 50mm x 100kg/m³ mineral wool infill to cavity between boards.
7. M4 self-tapping screws at nominal 200mm centres.
8. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.

240 minutes barrier	Maximum height of barrier (meter)				
	1.0	2.0	3.0	4.0	5.0
Minimum top channel thickness	1.2mm	2.0mm	3.0mm	3.0mm	4.0mm
Minimum stud thickness	1.2mm	2.0mm	3.0mm	3.0mm	4.0mm
Minimum top channel to stud fixings	4 x M4	4 x M8	4 x M8	4 x M10	4 x M10
Minimum size of top channel fixing anchor	M8	M10	M10	M12	M12
Minimum distance of top channel fixing anchor	500mm	500mm	400mm	400mm	300mm

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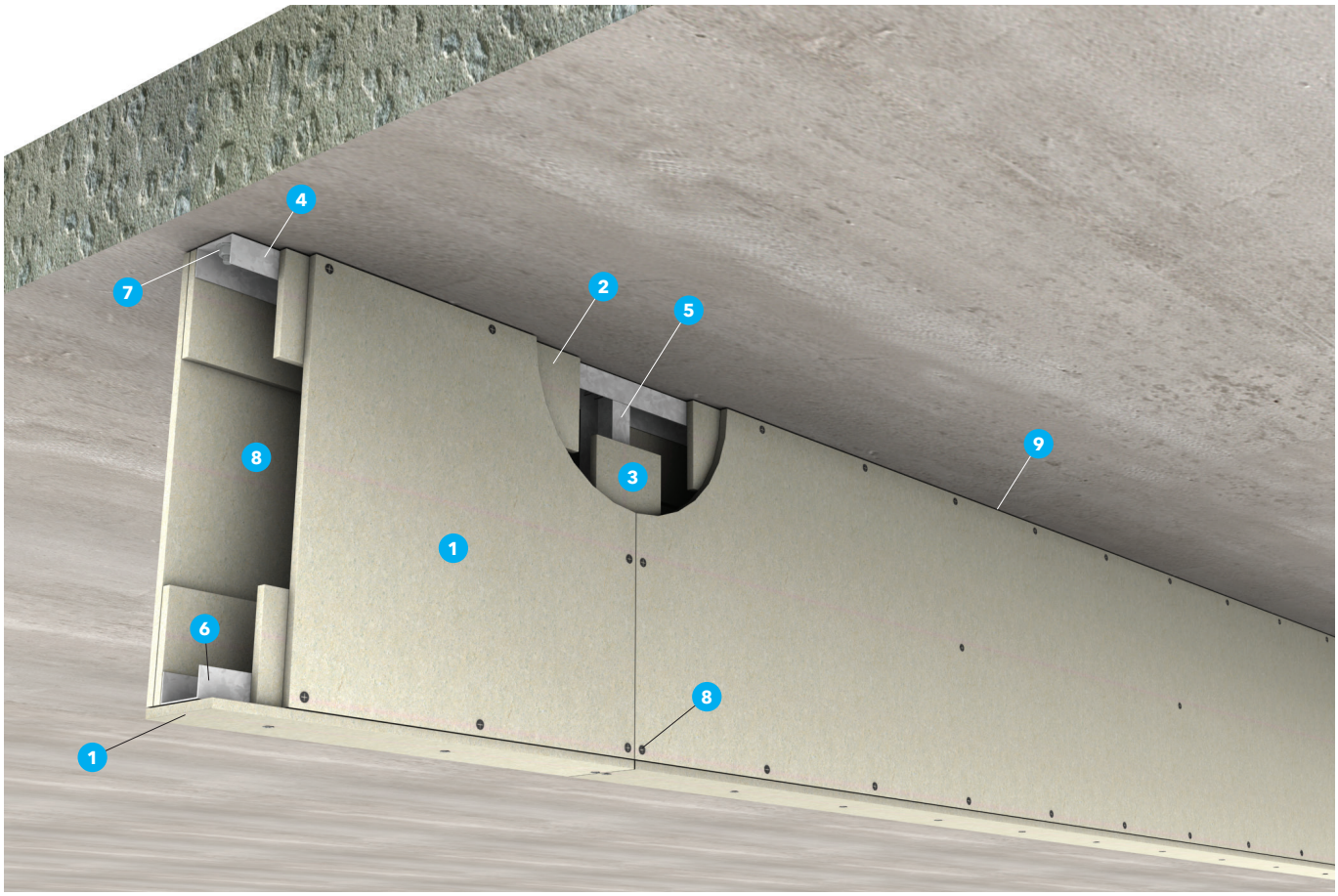
2-hour fire rated PROMINA®-60 smoke barrier (Integrity only)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/-	PMF.71.12E	9mm	Not required	BS 476: Part 22: 1987	WF 353174 Issue 2



1. One layer of 9mm thick PROMINA®-60 board at both sides and bottom of the system.
2. 75mm x 9mm thick PROMINA®-60 top/bottom strips.
3. 100mm x 9mm thick PROMINA®-60 vertical strips.
4. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
5. Steel C-channel vertical stud, min. 50mm x 50mm at 610mm centres, thickness refer to below table.
6. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
7. Steel anchor bolt, sizes refer to below table.
8. M4 self-tapping screws at nominal 200mm centres.
9. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.

120 minutes barrier	Maximum height of barrier (meter)		
	1.0	3.0	7.0
Minimum top channel thickness	0.8mm	1.6mm	2.5mm
Minimum stud thickness	0.6mm	1.6mm	2.5mm
Minimum top channel to stud fixings	M4	M5	M8
Minimum size of top channel fixing anchor	M8	M10	M12
Minimum distance of top channel fixing anchor	500mm	500mm	500mm

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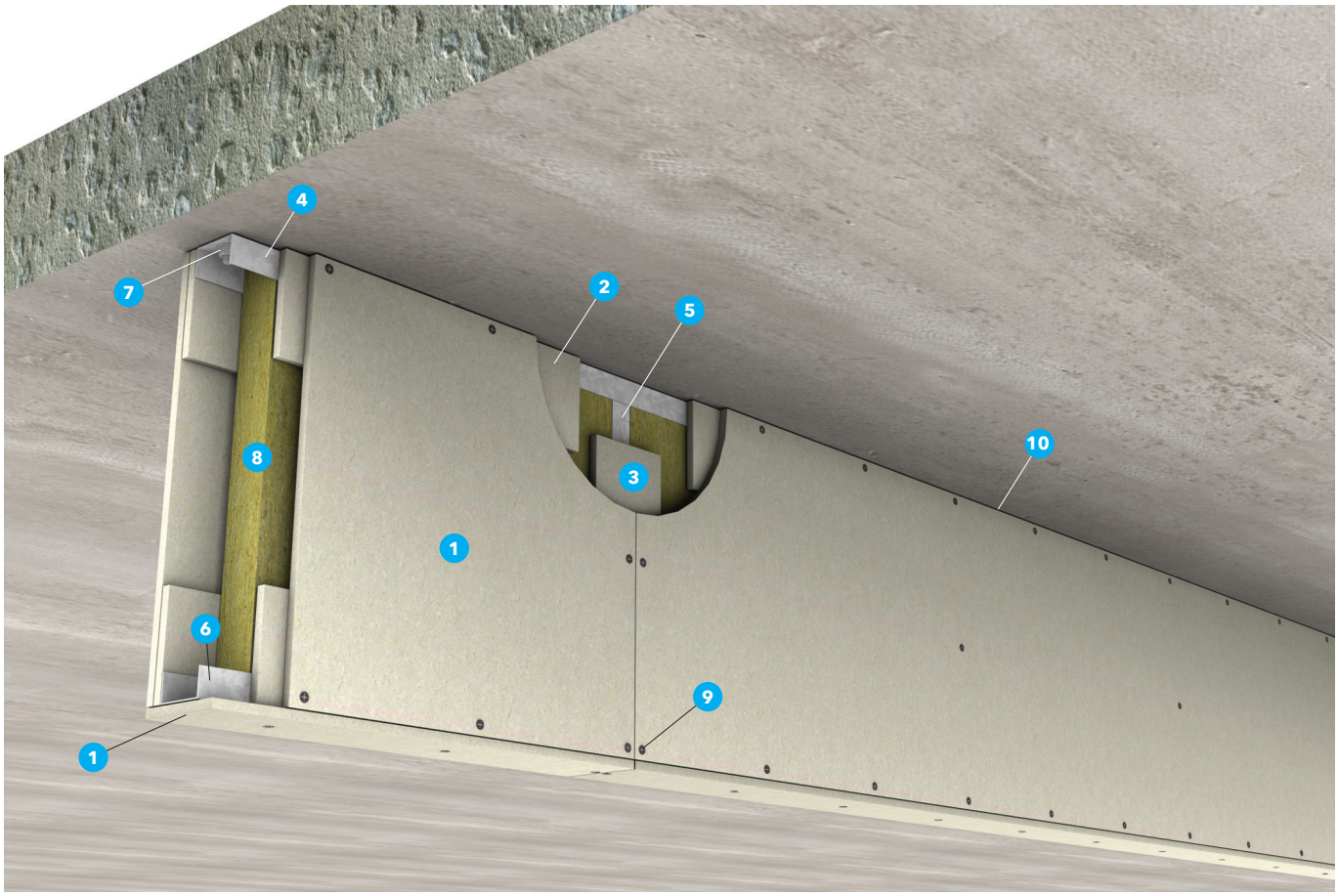
2-hour fire rated PROMINA®-60 smoke barrier

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/120	PMF.71.12	9mm	One layer 50mm x 100kg/m³	BS 476: Part 22: 1987	WF 353174 Issue 2



1. One layer of 9mm thick PROMINA®-60 board at both sides and bottom of the system.
2. 75mm x 9mm thick PROMINA®-60 top/bottom strips.
3. 100mm x 9mm thick PROMINA®-60 vertical strips.
4. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
5. Steel C-channel vertical stud, min. 50mm x 50mm at 610mm centres, thickness refer to below table.
6. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
7. Steel anchor bolt, sizes refer to below table.
8. One layer of 50mm x 150kg/m³ or 75mm x 100kg/m³ mineral wool infill to cavity between boards.
9. M4 self-tapping screws at nominal 200mm centres.
10. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.

120 minutes barrier	Maximum height of barrier (meter)		
	1.0	3.0	7.0
Minimum top channel thickness	1.2mm	2.0mm	3.0mm
Minimum stud thickness	1.2mm	2.0mm	3.0mm
Minimum top channel to stud fixings	M4	M5	M8
Minimum size of top channel fixing anchor	M8	M10	M10
Minimum distance of top channel fixing anchor	500mm	500mm	450mm

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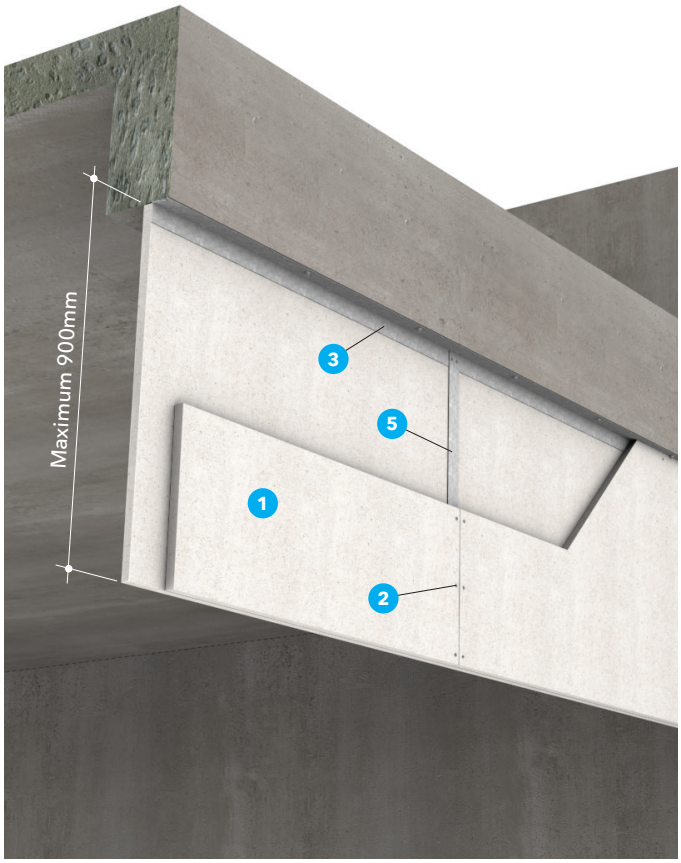
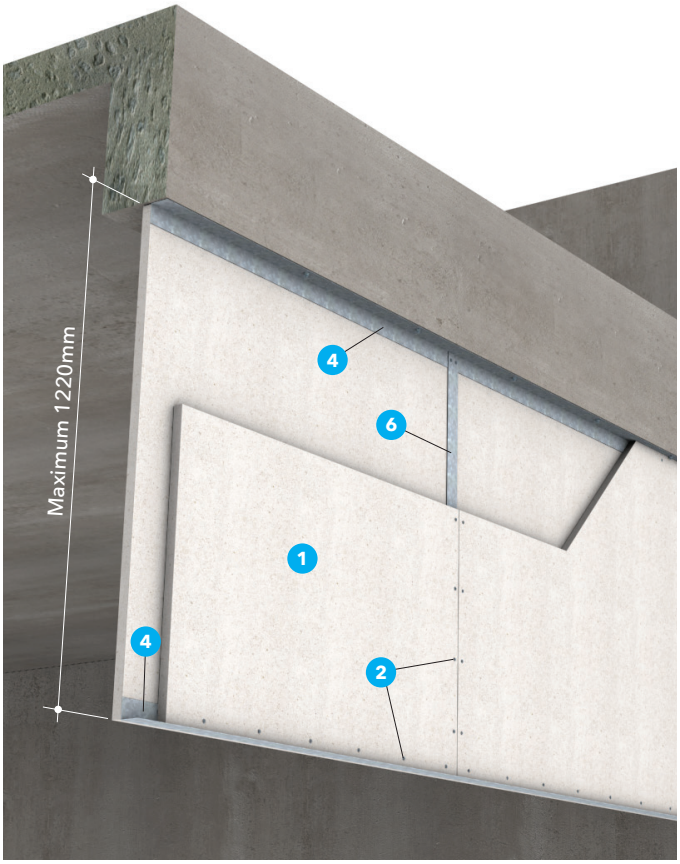
1-hour fire rated PROMATECT®-H spandrel wall system (Suspended)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/60/60	PMF.72.60	15 + 20mm	Not required	BS 476: Part 22: 1987	WF 330110 Issue 3

Type 1 – Up to 900mm



Type 2 – Up to 1200mm



1. One layer of 15mm + one layer of 20mm thick PROMATECT®-H board.
2. Self tapping screws at 200mm centres.
3. Steel angle 50mm x 50mm x 1mm fix to concrete slab by M6 steel anchor bolts at nominal 500mm centres.
4. Steel angle 50mm x 50mm x 1.2mm fix to concrete slab by M6 steel anchor bolts at nominal 500mm centres.
5. Steel flat bar 50mm x 0.6mm at 1220mm centres.
6. Steel flat bar 50mm x 1mm at 1220mm centres.

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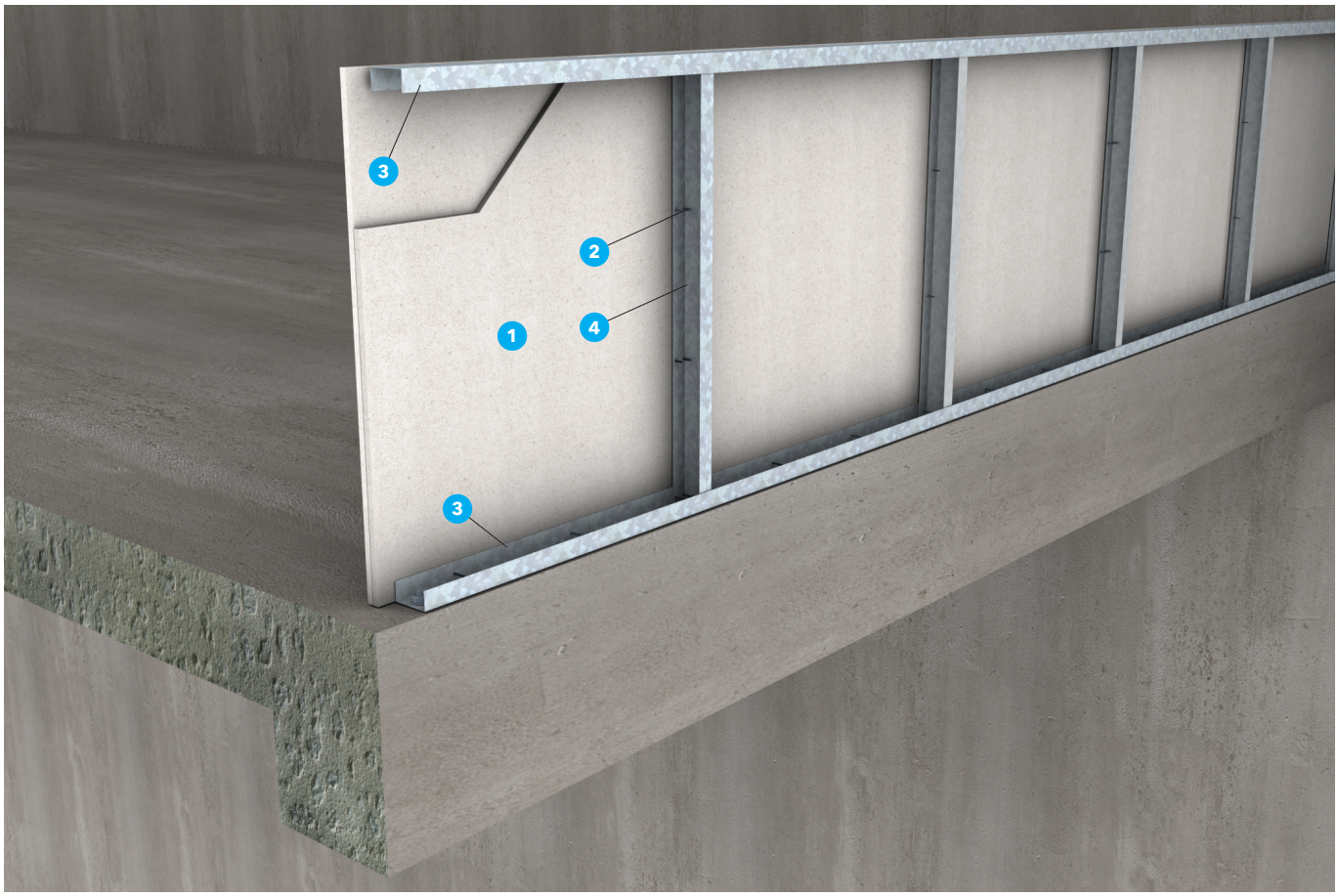
1-hour fire rated PROMATECT®-H spandrel wall system (Upstand)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/60/60	PMF.72.60	15 + 20mm	Not required	BS 476: Part 22: 1987	WF 330110 Issue 3



1. One layer of 15mm + one layer of 20mm thick PROMATECT®-H board.
2. Self tapping screws at 200mm centres.
3. Top/bottom steel channel, 50mm x 50mm x 1.2mm fix to concrete slab by M6 steel anchor bolts at nominal 500mm centres.
4. Steel channel, 50mm x 50mm x 1.2mm at 1220mm centres.

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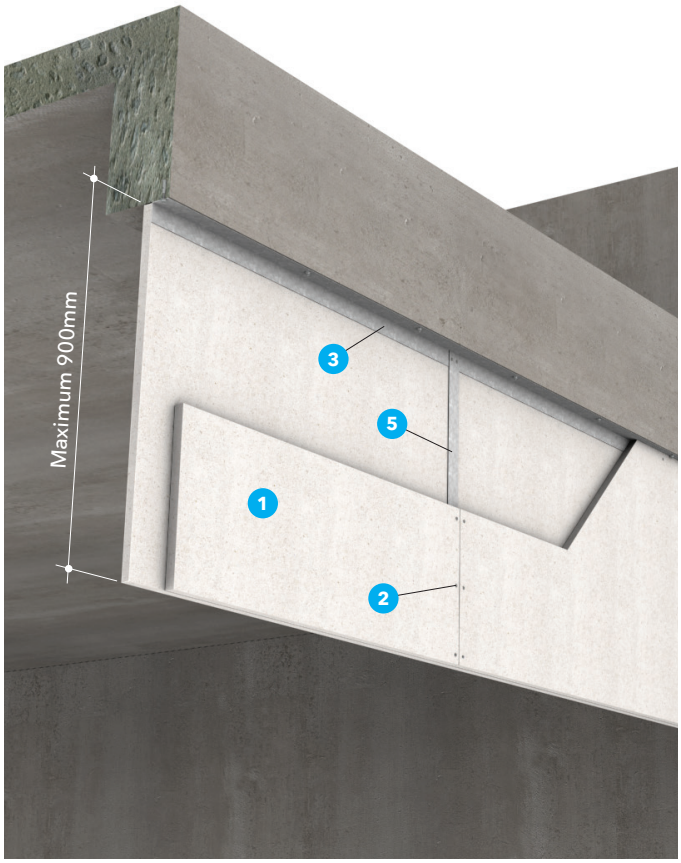
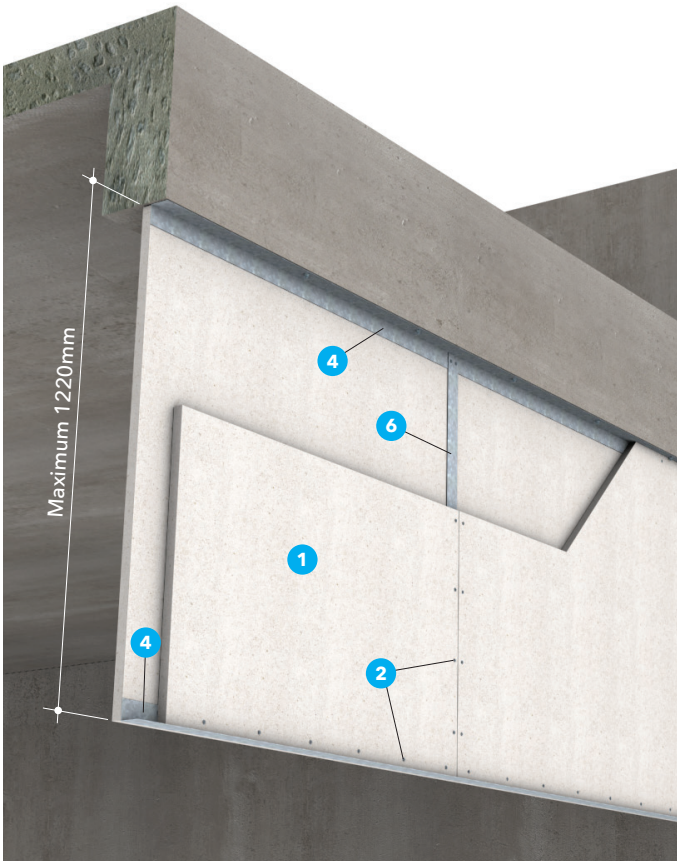
2-hour fire rated PROMATECT®-H spandrel wall system (Suspended)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/120	PMF.72.12	2 x 25mm	Not required	BS 476: Part 22: 1987	WF 330110 Issue 3

Type 1 – Up to 900mm



Type 2 – Up to 1200mm



1. Two layers of 25mm thick PROMATECT®-H board.
2. Self tapping screws at 200mm centres.
3. Steel angle 50mm x 50mm x 1mm fix to concrete slab by M6 steel anchor bolts at nominal 500mm centres.
4. Steel angle 50mm x 50mm x 1.2mm fix to concrete slab by M6 steel anchor bolts at nominal 500mm centres.
5. Steel flat bar 50mm x 0.6mm at 1220mm centres.
6. Steel flat bar 50mm x 1mm at 1220mm centres.

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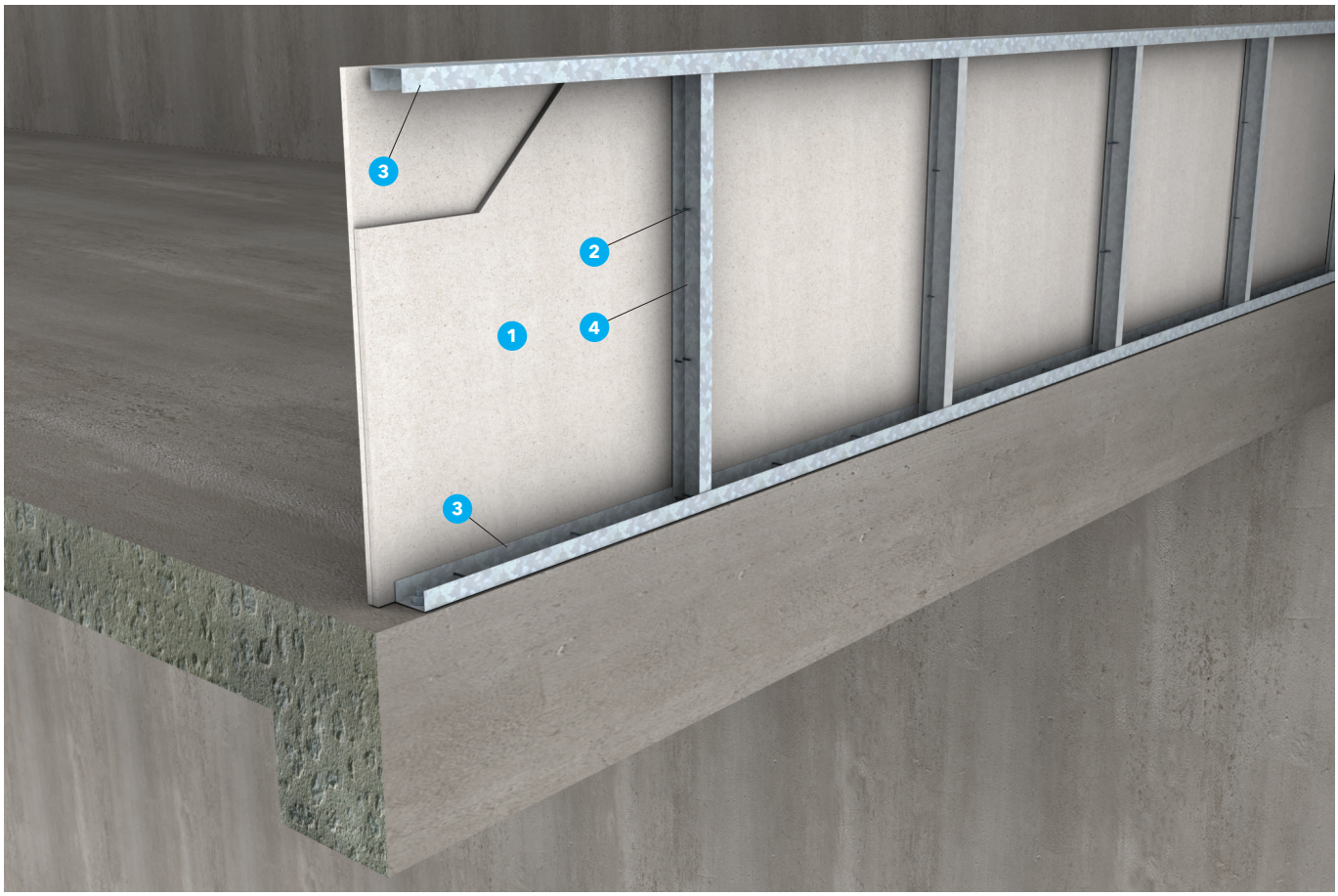
2-hour fire rated PROMATECT®-H spandrel wall system (Upstand)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/120	PMF.72.12	2 x 25mm	Not required	BS 476: Part 22: 1987	WF 330110 Issue 3



1. Two layers of 25mm thick PROMATECT®-H board.
2. Self tapping screws at 200mm centres.
3. Top/bottom steel channel, 50mm x 50mm x 1.2mm fix to concrete slab by M6 steel anchor bolts at nominal 500mm centres.
4. Steel channel, 50mm x 50mm x 1.2mm at 1220mm centres.

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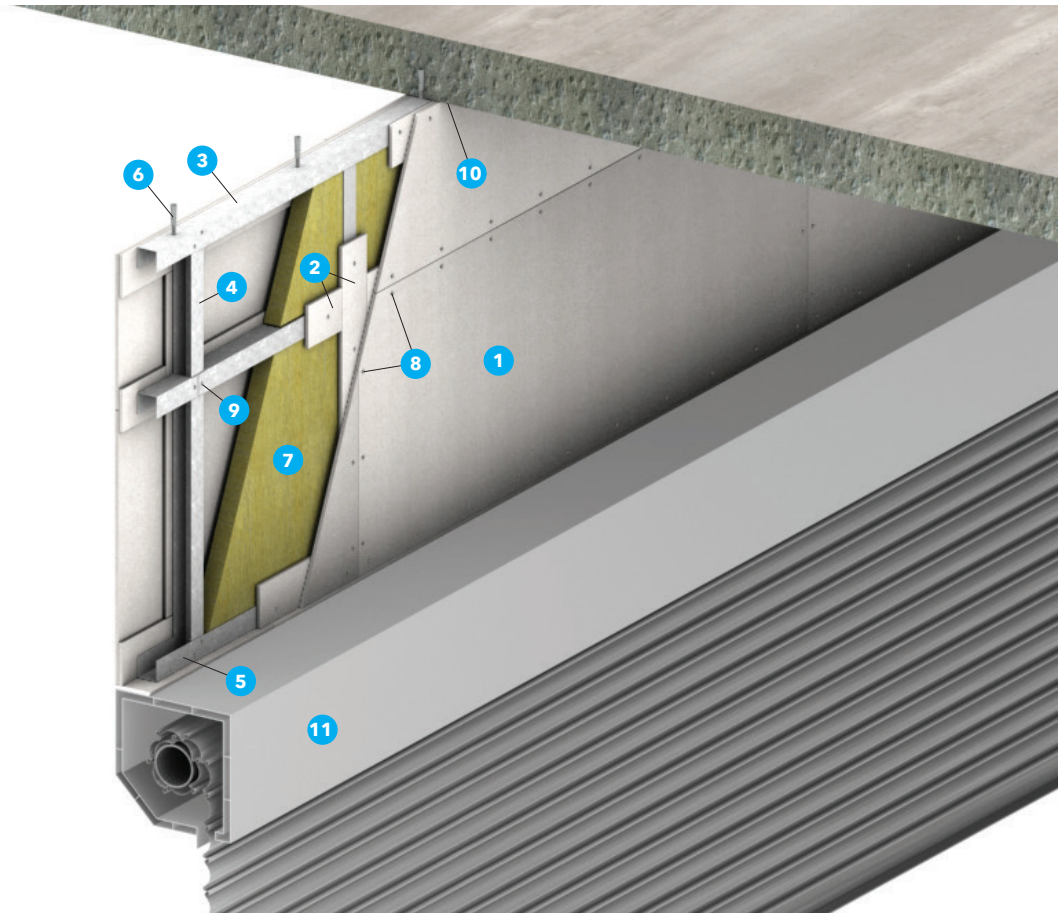
2-hour fire rated PROMATECT®-H smoke and fire barrier above roller shutter

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/120/120	PMF.71.12	9mm	One layer 75mm x 100kg/m³	BS 476: Part 22: 1987	WF 330487 Issue 3



1. One layer of 9mm thick PROMATECT®-H board at both sides and bottom of the system.
2. 100mm x 9mm thick PROMATECT®-H cover strips, fixed to both sides of the framing prior to installing the main boards.
3. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
4. Steel C-channel vertical stud, min. 50mm x 50mm, thickness refer to below table.
5. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
6. Steel anchor bolt, sizes refer to below table.
7. One layer of 75mm x 100kg/m³ mineral wool infill to cavity between boards.
8. M4 self-tapping screws at nominal 200mm centres.
9. Self-tapping fixings
10. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.
11. Self-supported roller shutter (by others)

120 minutes barrier	Maximum height of barrier (meter)				
	1.0	2.0	3.0	4.0	5.0
Minimum top channel thickness	0.8mm	1.0mm	1.5mm	2.5mm	3.0mm
Minimum stud thickness	0.8mm	1.0mm	1.5mm	2.5mm	3.0mm
Minimum top channel to stud fixings	4 x M4	4 x M6	4 x M6	4 x M6	4 x M6
Minimum size of top channel fixing anchor	M8	M8	M8	M10	M12
Minimum distance of top channel fixing anchor	500mm	400mm	250mm	250mm	250mm

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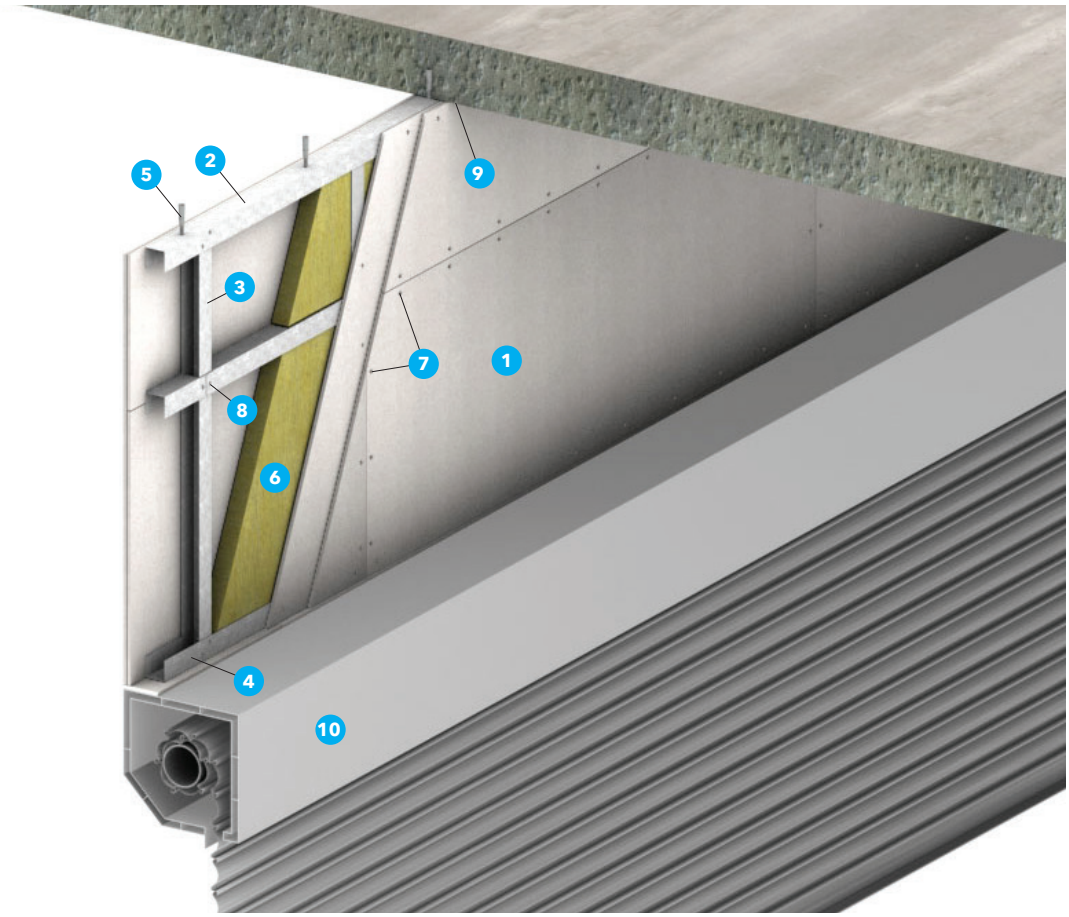
4-hour fire rated PROMATECT®-H smoke and fire barrier above roller shutter

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/240/240	PMF.71.24	2 x 9mm	Two layers 50mm x 100kg/m³	BS 476: Part 22: 1987	WF 330487 Issue 3



1. Two layers of 9mm thick PROMATECT®-H board at both sides and bottom of the system.
2. Steel C-channel top track, min. 50mm x 50mm, thickness refer to below table.
3. Steel C-channel vertical stud, min. 50mm x 50mm, thickness refer to below table.
4. Steel C-channel bottom track, min. 50mm x 50mm x 0.6mm thick.
5. Steel anchor bolt, sizes refer to below table.
6. Two layers of 50mm x 100kg/m³ mineral wool infill to cavity between boards.
7. M4 self-tapping screws at nominal 200mm centres.
8. Self-tapping fixings
9. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.
10. Self-supported roller shutter (by others)

240 minutes barrier	Maximum height of barrier (meter)				
	1.0	2.0	3.0	4.0	5.0
Minimum top channel thickness	1.2mm	2.0mm	3.0mm	3.0mm	4.0mm
Minimum stud thickness	1.2mm	2.0mm	3.0mm	3.0mm	4.0mm
Minimum top channel to stud fixings	4 x M4	4 x M8	4 x M8	4 x M10	4 x M10
Minimum size of top channel fixing anchor	M8	M10	M10	M12	M12
Minimum distance of top channel fixing anchor	500mm	500mm	400mm	400mm	300mm

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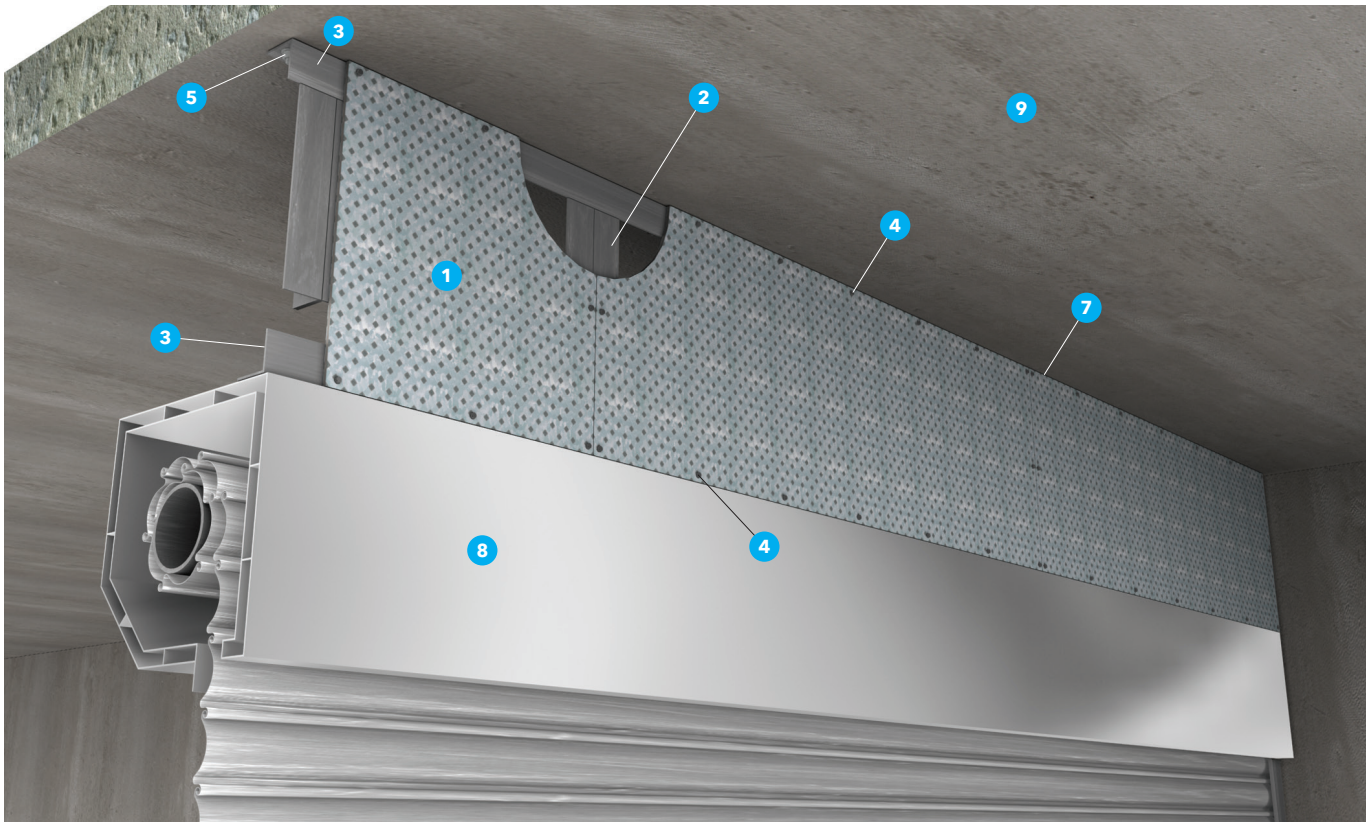
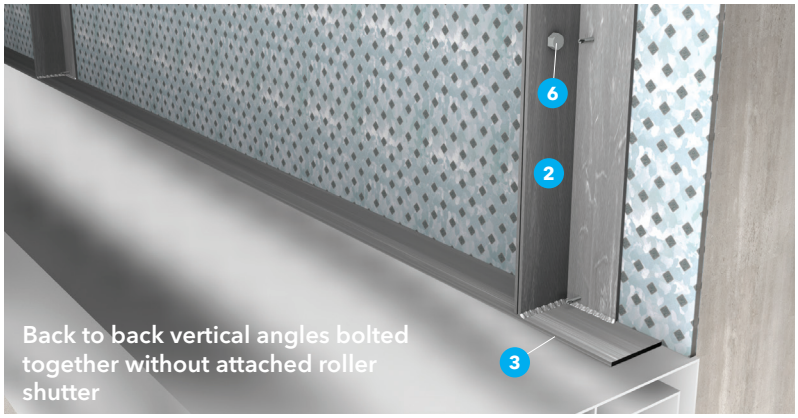
4-hour fire rated PROMATECT®-S smoke and fire barrier above roller shutter (Integrity only)

FRR	Model number	Board thickness	Mineral wool (thickness x density)	Standard	Test assessment report no.
-/240/-	PS.71.24E	9.5mm	Not required	BS 476: Part 22: 1987	BRE P104858-1111 Issue 1





Back to back vertical angles bolted together without attached roller shutter

1. One layer of 6mm thick PROMATECT®-S board at one side of the system.
2. Cut and welded back to back 50mm x 50mm x 3mm thick vertical galvanised steel angles bolted together with M8 anchor bolts (6) at nominal 2500mm centres (for barrier height ≤1200mm) or at nominal 1200mm centres (for barrier height ≥1200mm yet ≤ 2500mm).
3. 50mm x 50mm x 3mm thick each of top and bottom galvanised steel angles.
4. Minimum M4 self-tapping Teks screws at maximum 200mm centres.
5. M12 anchor bolts at maximum 500mm centres.
6. M8 anchor bolts at maximum 400mm centre.
7. Caulk all perimeter gaps with PROMASEAL® Intumescent Acrylic Sealant to achieve the required fire resistance performance.
8. Existing fire resistant roller shutter system, independently fixed to substrate in accordance with manufacturer's instructions.
9. Masonry or concrete structure, with fire resistance equal to or higher than the system's.

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Promat Asia Pacific

GLOBAL EXPERT IN PASSIVE FIRE PROTECTION

Promat is the expert and worldwide reference in passive fire protection and high-performance insulation for the construction sector and a large number of industrial markets. We offer sustainable solutions that protect lives and assets, enhance comfort, optimise process efficiency, minimise the loss of space and energy and help reduce CO_2 emissions.

Since 1958 — For over 60 years, Promat has been dedicated to designing, testing, and manufacturing comprehensive passive fire protection products and systems.

Conducting over 200 fire tests annually, we ensure our products and systems meet the highest international standards and regulations.

We understand your local fire safety regulations, offering the most efficient passive fire protection tailored to your unique building project.

All our systems have been tested and have obtained certificates from the local authorities.

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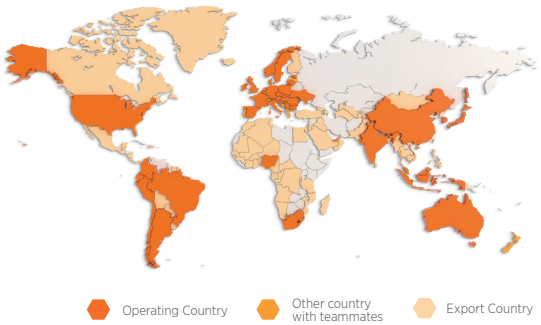
About Etex

Etex is a global building material manufacturer and pioneer in lightweight construction. Etex wants to inspire people around the world to build living spaces that are ever more safe, sustainable, smart and beautiful.

Founded in 1905, headquartered in Zaventem, Belgium, Etex is a family-owned company with more than 13,500 employees globally. It operates more than 160 sites in 45 countries and recorded a revenue of EUR 3.7 billion in 2022. Etex fosters a collaborative and caring culture, a pioneering spirit and a passion to always do better for its customers.



Etex has five R&D centres supporting five global divisions:

- Building Performance: dry construction solutions including plasterboards and fibre cement boards, plasters and formulated products, passive fire protection and associated products.
- Exteriors: a range of aesthetic fibre cement materials for use in agriculture, architectural and residential exteriors.
- Industry: fire protection and high-performance insulation products for the construction and OEM (Original Equipment Manufacturer) industries.
- Insulation: glass mineral wool and extruded polystyrene (XPS) for thermal and acoustic insulation.
- New Ways: high-tech offsite modular solutions based on wood and steel framing.

Etex's global portfolio includes leading commercial brands such as Promat, Kalsi, Siniat, Equitone, Eternit, Cedral, Durlock, Gyplac, Pladur, Superboard and URSA.

Etex is Inspiring Ways of Living, for more information, please visit our website: www.etexgroup.com