



# Fire resistant Access Panels

## Building & construction solutions

Technical manual



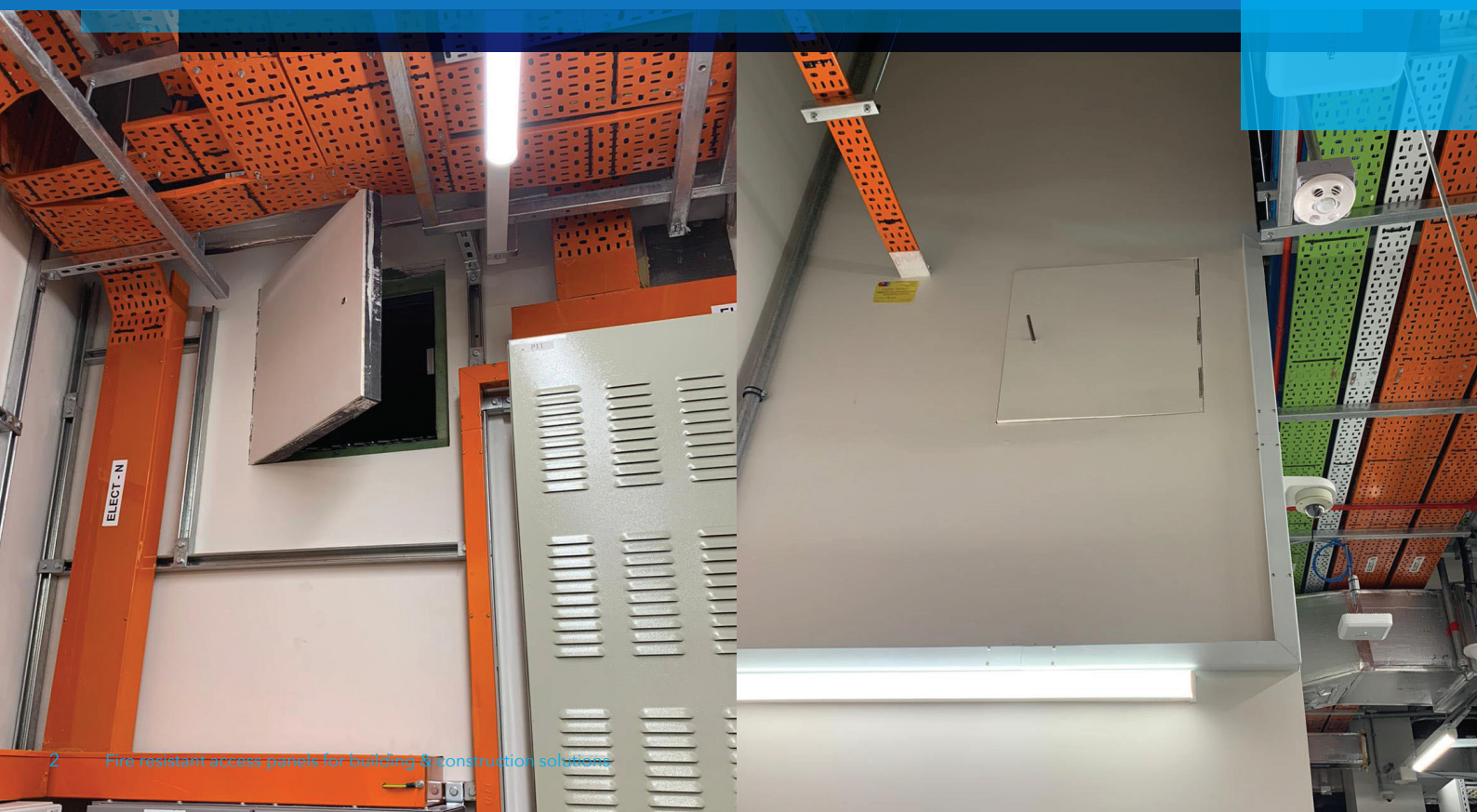
# Promat



## Promat Fire Resistant Access Panels

Permits openable access to spaces in fire compartments without compromising on fire performance.

The Promat Fire Resistant Access Panels comes as a complete unit, a panel of plain surface finish on both faces, set into a galvanised steel rebated frame, surrounded with perimeter bead. Available either hinged with a flush locking mechanism or screw fixed, Promat Fire Resistant Access Panels are designed so as to blend well aesthetically with the fire resistant element to give a elegant look, providing access and ensuring the fire resistance performance of the compartment element remains intact.







## Installation guide

### The Basic supporting fire resistant element

Promat Fire Resistant Access Panels are fire tested to the most onerous conditions. The Promat Fire Resistant Access Panel unit is set within a dry constructed element including PROMATECT® fire resistant ceiling and PROMATECT® E&M enclosure construction. It is also suited if set in a masonry construction or other dry construction such as fire resistant plasterboard ceilings provided the structural framework of the ceiling is appropriately designed to support the weight and fixing details of the Promat Access Panel unit.

The opening prepared to receive the Promat Fire Resistant Access Panel unit shall be adequately framed and structured so as to be capable to support the Promat Fire Resistant Access Panels.

Where openings are made post construction to receive the Access Panel unit, care shall be taken to ensure the perimeter of the opening is made structurally sound, reinforced and duly supported.

### Appropriate fire resistance

The Promat Fire Resistant Access Panel shall have equal or higher fire resistance performance than the fire resistant element.

### Installation

1. The opening formed within the fire resistant element shall be duly structured & reinforced such as to be able to hold the weight of the Promat Access Panel.
2. Preferably the dimensions of the opening shall provide a tight fit for the Promat Access Panel unit, and/or a tolerance gap of not more than 5mm.
3. With the panel opened secure the galvanised steel frame from the inside of the frame to the perimeter steel structure of the opening, using minimum M8 self-tapping screws through preformed screw holes in the galvanised steel frame. Minimum 2 screws on each of the 4 sides of the frame.
4. Seal the perimeter gaps with a bead of PROMASEAL®-A sealant.
5. The surface of the Promat Fire Resistant Access Panel can be left plain or finished with any desired architectural finish provided it complies with the surface spread of flame requirements of the local regulations.

## Fire test standards

Fire test standards tests define fire performance in terms of

### A material's REACTION to Fire

Such tests define the specimen's property in terms of its level of non-combustible behaviour, its surface spread of flame, its smoke behaviours.

### A full construction's RESISTANCE to fire

Unlike the property of a singular material specimen, fire resistance is a measure of the performance of a complete system construction when exposed to the standard heating conditions of either one of the international time temperature fire curves. The criteria of assessment are:

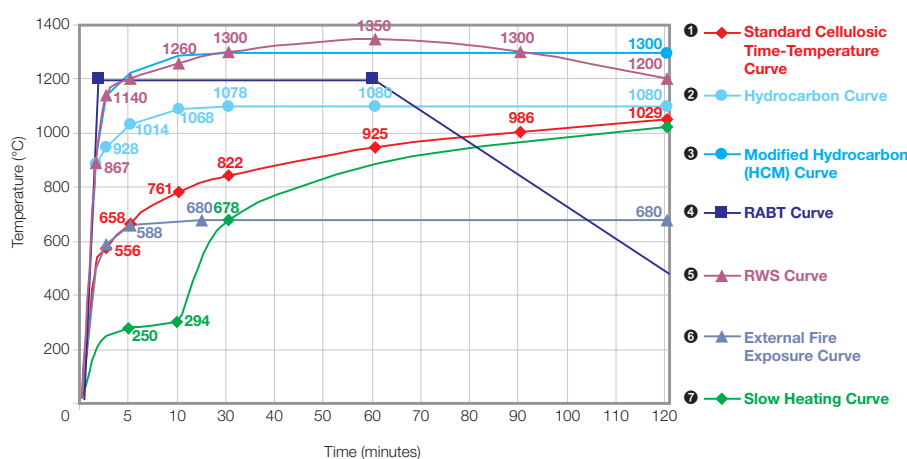
**Load bearing capacity** - The ability of a loadbearing specimen construction to support the test load without exceeding specific criteria with respect to its rate and extent of deformation.

**Integrity** - The ability of a fire separating element to contain a fire in terms of no collapse, no development of fissures, cracks or holes and no sustaining flames on the unexposed face of the specimen.

**Insulation** - The ability of a fire separating element to restrict thermal heat transfer to the unexposed face to below specific limits; ie 140°C mean rise in temperature, 180°C maximum rise in temperature on the unexposed face.

Below are some widely adopted fire testing standards:

Reaction to fire		Resistance to fire	
BS 476: Part 4	EN 1182	BS 476: Part 20	EN 1363 series
BS 476: Part 5	EN 1716&	BS 476: Part 21	EN 1364 series
BS 476: Part 6	EN 13823	BS 476: Part 22	EN 1365 series
BS 476: Part 7	EN 11925	BS 476: Part 24	EN 1366 series



Fire curves

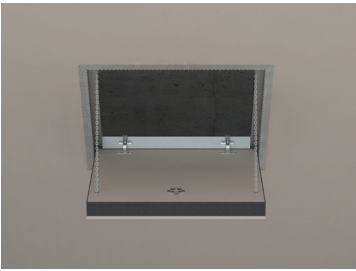



## Hinged access panels

Access panels type	System code	Fire resistance performance	Test/Approval no.	Panel size (mm)	Clear opening (mm)	Page no.
 <p>PROMATECT®-L 500 2-hour fire rated hinged access panel (Self-supporting membrane ceiling)</p>	PE.17.12	-/120/120	BS 476: Part 20: 1987	600 x 600	500 x 500	8
 <p>PROMATECT®-L 500 2-hour fire rated hinged access panel (Suspended ceiling)</p>	PE.17.12	-/120/120	BS 476: Part 20: 1987	600 x 600	500 x 500	9
 <p>PROMATECT®-L 500 2-hour fire rated hinged access panel (Masonry wall/Partition)</p>	PE.17.12	-/120/120	BS 476: Part 20: 1987	600 x 600	500 x 500	10

Promat Fire Resistant Access Panels are tested to BS 476: Part 20 to fulfil Integrity and Insulation Performance Criteria.

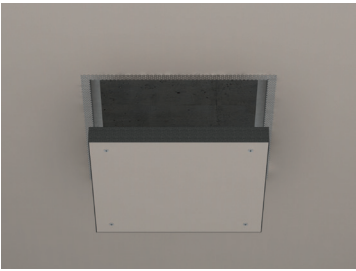
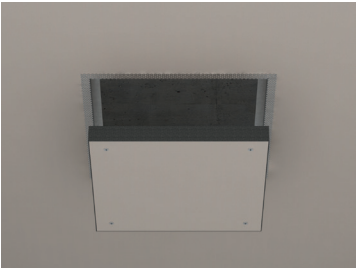
## Hinged access panels

Access panels type	System code	Fire resistance performance	Test/Approval no.	Panel size (mm)	Clear opening (mm)	Page no.
 <p>PROMINA®60 1-hour fire rated hinged access panel (Self-supporting membrane ceiling)</p>	PMF.17.60	-/60/60	BS 476: Part 20 & 22: 1987	600 x 600	540 x 540	11
 <p>PROMINA®60 1-hour fire rated hinged access panel (Suspended ceiling)</p>	PMF.17.60	-/60/60	BS 476: Part 20 & 22: 1987	450 x 450	390 x 390	12
				600 x 600	540 x 540	

Promat Fire Resistant Access Panels are tested to BS 476: Part 20 to fulfil Integrity and Insulation Performance Criteria.



## Fixed access panels

Access panels type	System code	Fire resistance performance	Test/Approval no.	Panel size (mm)	Clear opening (mm)	Page no.
 <p>PROMINA®60 2-hour fire rated screw fixed access panel (Self-supporting membrane ceiling)</p>	PMF.15.12	-/120/120	BS 476: Part 20 & 22: 1987	600 x 600	540 x 540	13
 <p>PROMINA®60 2-hour fire rated screw fixed access panel (Suspended ceiling)</p>	PMF.15.12	-/120/120	BS 476: Part 20 & 22: 1987	450 x 450	390 x 390	14
				600 x 600	540 x 540	

Promat Fire Resistant Access Panels are tested to BS 476: Part 20 to fulfil Integrity and Insulation Performance Criteria.

## PROMATECT®-L 500 2-hour fire rated hinged access panels (Self-supporting membrane ceiling)

A 3D cutaway diagram of a ceiling access panel installation. The diagram shows a rectangular panel (1) being lowered into a ceiling opening. The panel is suspended by a chain (8) attached to a hook (7). The ceiling structure consists of a concrete slab (5) with a green insulation layer (6) and a metal frame (4). The panel is shown in a partially open position, revealing the interior space. Dimensions for the panel size and clear opening are indicated at the top. The panel is labeled with a blue circle containing the number 1, and the chain is labeled with a blue circle containing the number 8.

### Fire Resistance

#### FRL

-/120/120

System code: PE.17.12

#### Standard

BS 476: Part 20: 1987

### Construction

Panel size  
(mm)

600 x 600

Clear  
opening  
(mm)

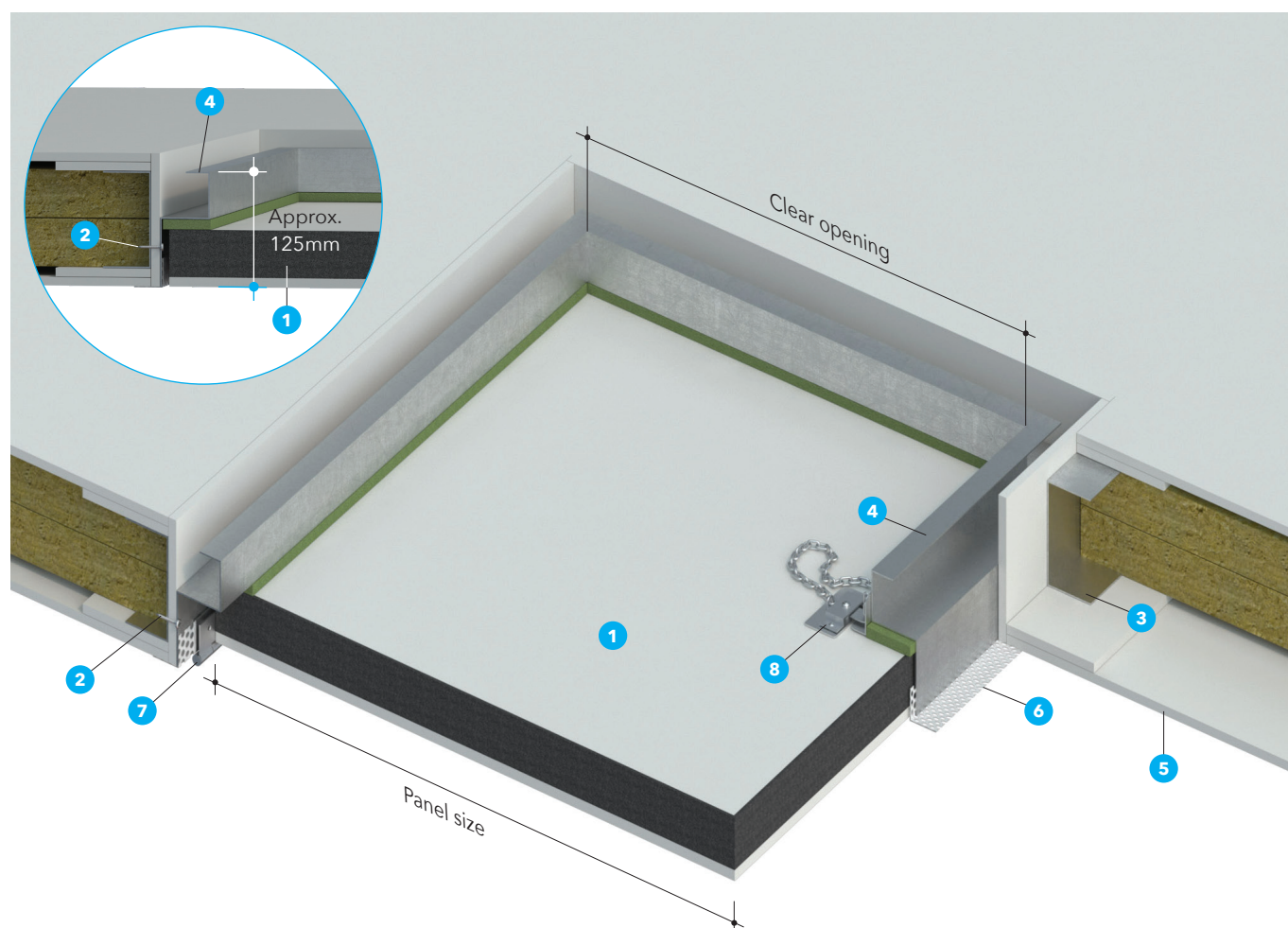
500 x 500

Approx.  
height  
(mm)

125

Approx.  
weight  
(kg)

20 ±10%

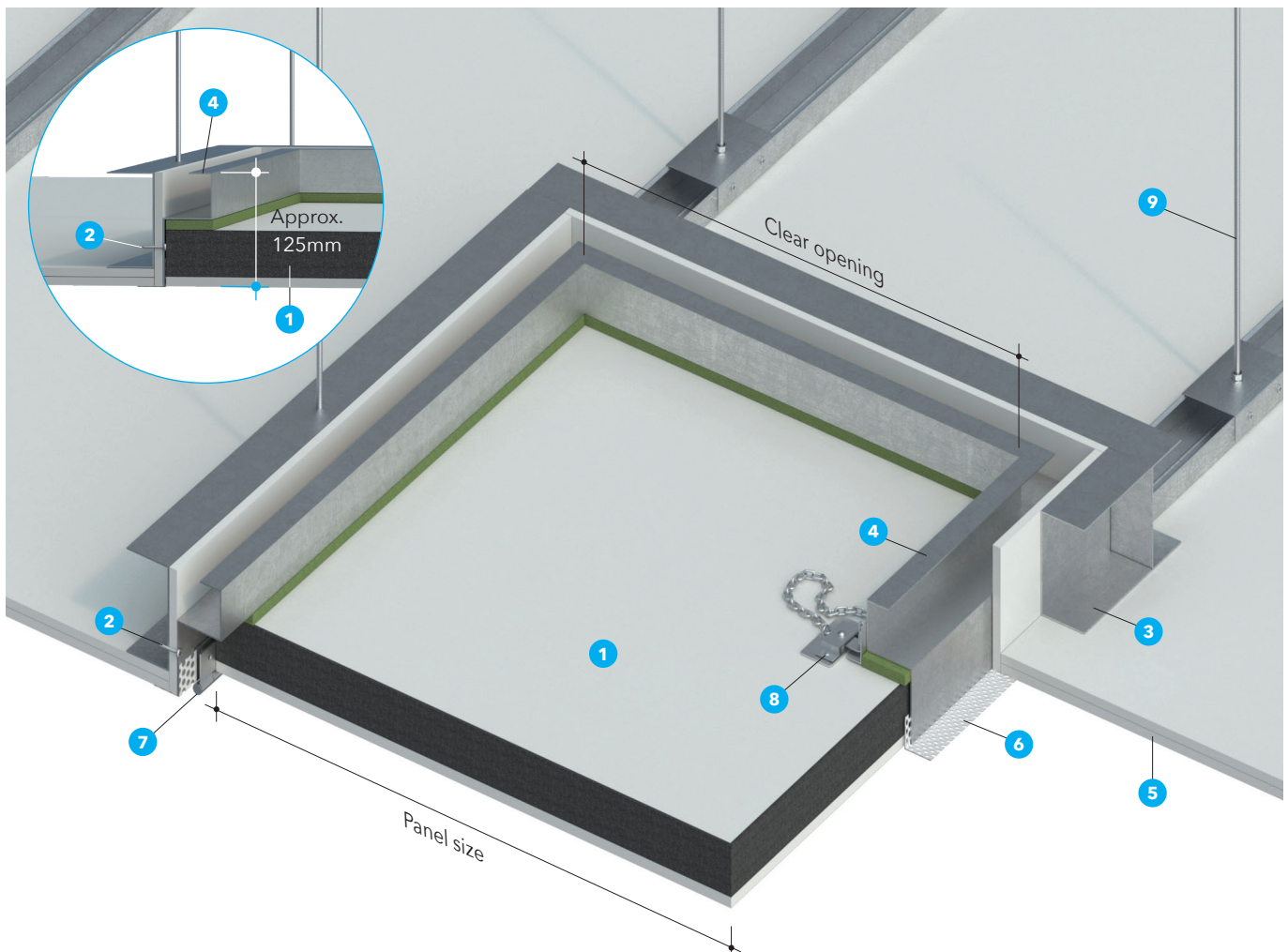


1. Promat Access Panel 59mm thick
2. No. 4 pan head to secure access panel to reinforced framework.
3. Steel channel U-100 x 50 x 1.5mm additional reinforced framework around access panel to be provided by others.
4. Access panel framing.
5. Fire resistant ceiling.
6. Perimeter corner bead.
7. Access panel hinges.
8. Budget lock.



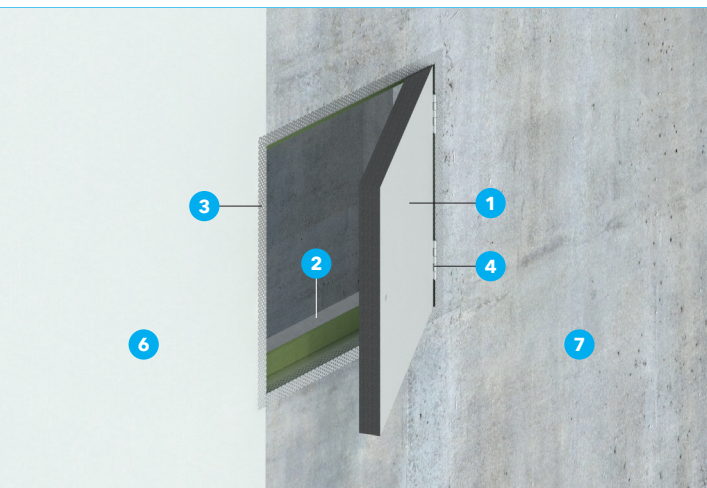
## PROMATECT®-L 500 2-hour fire rated hinged access panels (Suspended ceiling)

Fire Resistance	FRL	-/120/120	System code: PE.17.12	
	Standard	BS 476: Part 20: 1987		
Construction	Panel size (mm)	Clear opening (mm)	Approx. height (mm)	Approx. weight (kg)
	600 x 600	500 x 500	125	20 ±10%

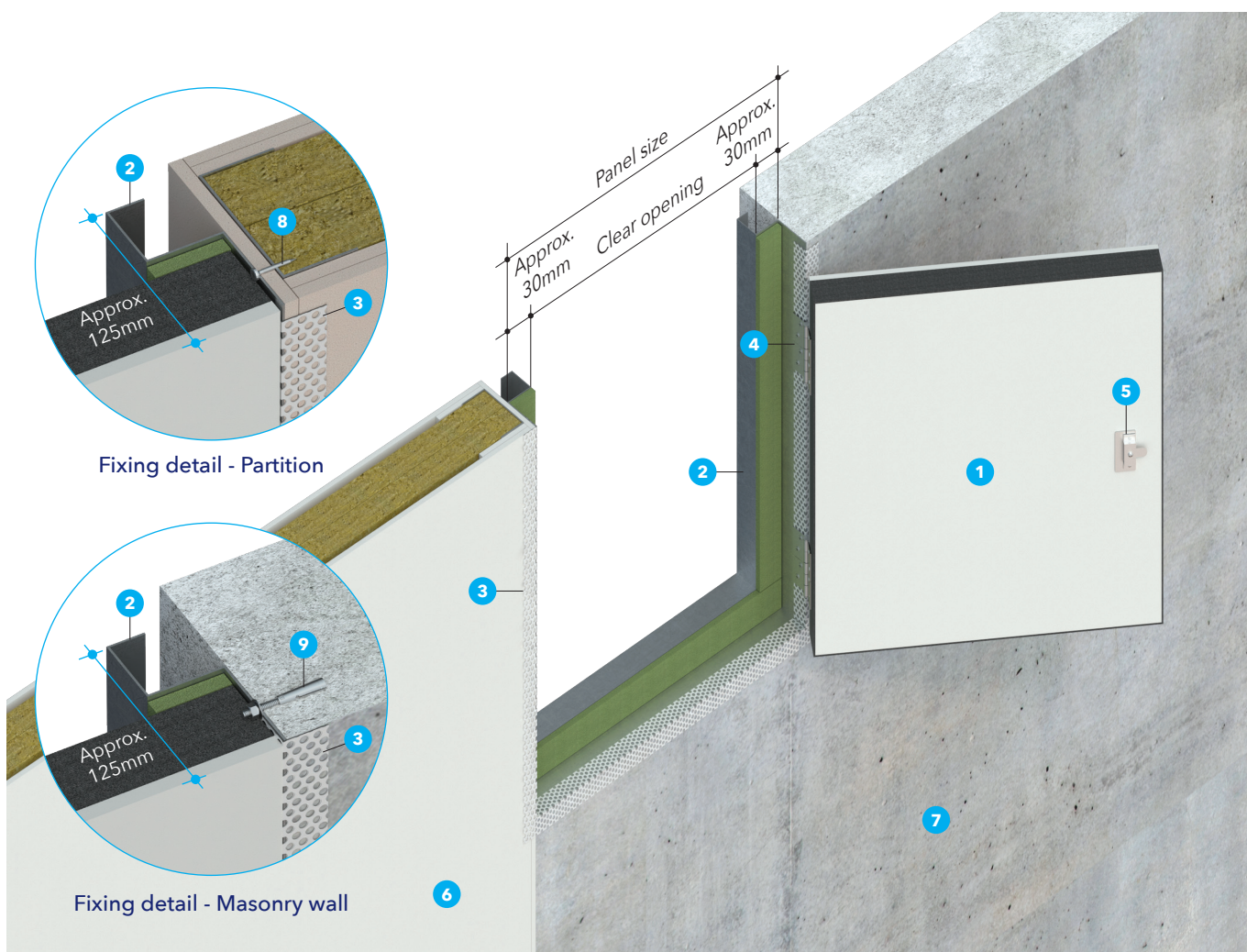


1. Promat Access Panel 59mm thick
2. No. 4 pan head to secure access panel to reinforced framework.
3. Steel channel U-100 x 50 x 1.5mm additional reinforced framework around access panel to be provided by others.
4. Access panel framing.
5. Fire resistant ceiling.
6. Perimeter corner bead.
7. Access panel hinges.
8. Budget lock.
9. Ceiling suspension.
10. Suitable steel rod hanger to be provided by others.

## PROMATECT®-L 500 2-hour fire rated hinged access panels (Masonry wall/Partition)



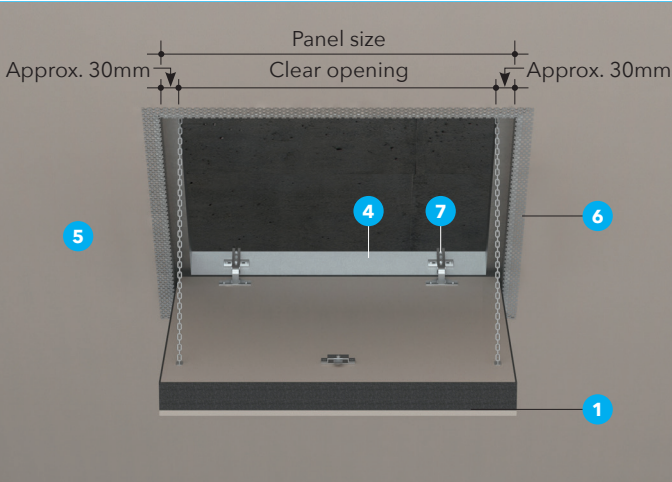
Fire Resistance	FRL	-/120/120	System code: PE.17.12	
	Standard	BS 476: Part 20 & 22: 1987		
Construction	Panel size (mm)	Clear opening (mm)	Approx. height (mm)	Approx. weight (kg)
	600 x 600	500 x 500	125	20 ±10%

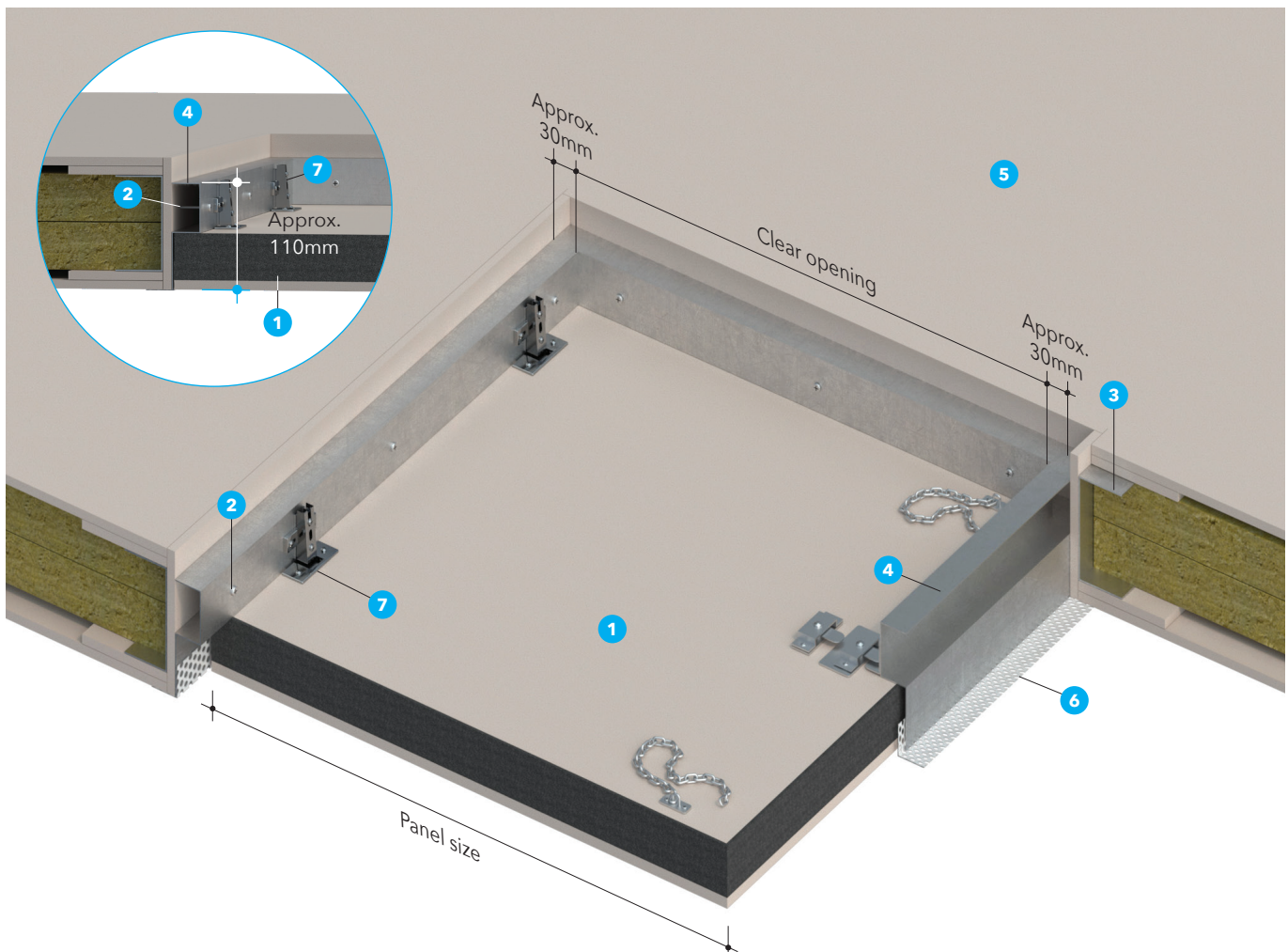


1. Promat Access Panel 59mm thick
2. Access panel framing.
3. Perimeter corner bead.
4. Access panel hinges.
5. Budget lock.
6. Fire resistant partition.
7. Masonry wall.
8. No. 4 pan head to secure access panel to reinforced framework.
9. M6 all steel anchor bolt at nominal 500mm centres.



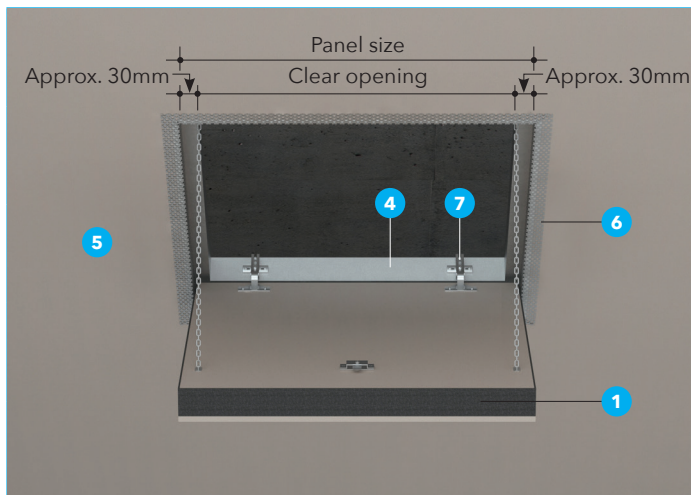
## PROMINA® 60 1-hour fire rated hinged access panels (Self-supporting membrane ceiling)

	Fire Resistance	FRL	-/60/60	System code: PMF.17.60	
	Standard	BS 476: Part 20 & 22: 1987			
Construction	Panel size (mm)	Clear opening (mm)	Approx. height (mm)	Approx. weight (kg)	
	600 x 600	540 x 540	110	12 ±10%	

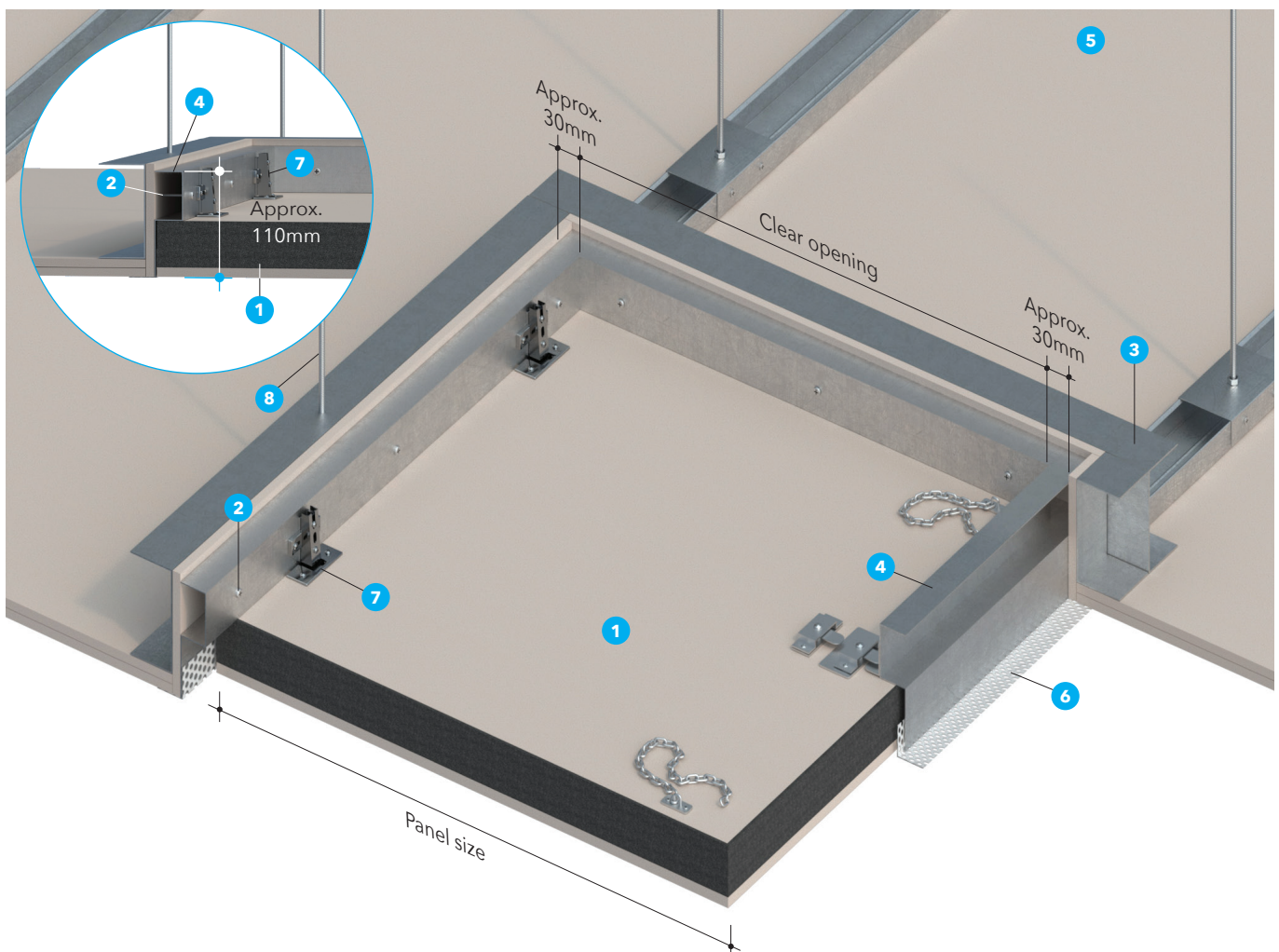


1. Promat Access Panel.
2. No. 4 pan head to secure access panel to reinforced framework.
3. Min. U-100 x 50 x 1.5mm additional reinforced framework around access panel to be provided by others.
4. Access panel framing.
5. Fire resistant ceiling.
6. Perimeter corner bead.
7. Access panel hinges.

## PROMINA® 60 1-hour fire rated hinged access panels (Suspended ceiling)



Fire Resistance	FRL	-/60/60	System code: PMF.17.60	
	Standard	BS 476: Part 20 & 22: 1987		
Construction	Panel size (mm)	Clear opening (mm)	Approx. height (mm)	Approx. weight (kg)
	450 x 450	390 x 390	110	6.5 ±10%
	600 x 600	540 x 540	110	12 ±10%



1. Promat Access Panel.
2. No. 4 pan head to secure access panel to reinforced framework.
3. Min. U-100 x 50 x 1.5mm additional reinforced framework around access panel to be provided by others.
4. Access panel framing.
5. Fire resistant ceiling.
6. Perimeter corner bead.
7. Access panel hinges.
8. Suitable steel rod hanger to be provided by others.

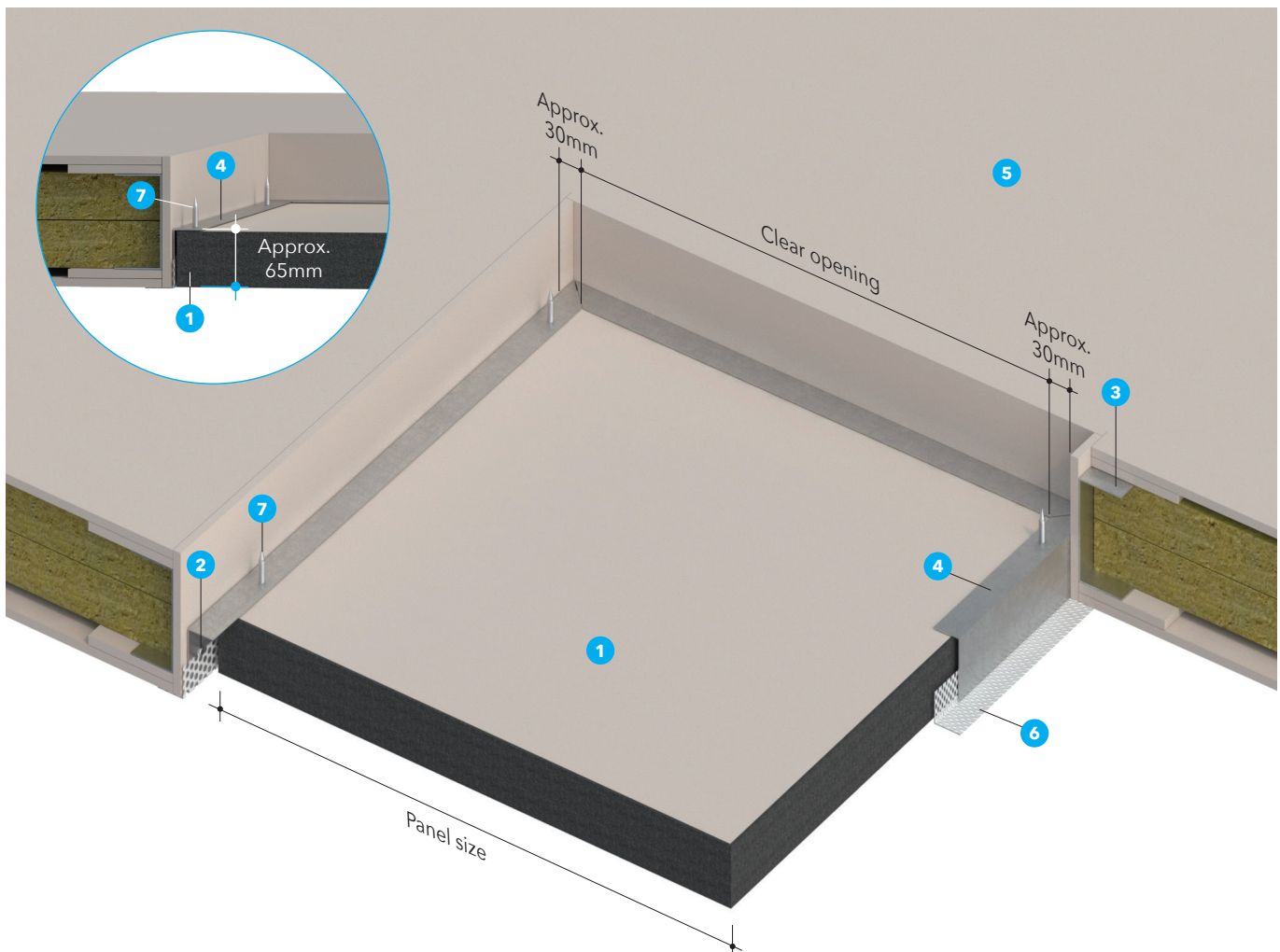


## PROMINA® 60 2-hour fire rated fixed access panels (Self-supporting membrane ceiling)

Diagram illustrating the construction and dimensions of the fire-rated access panel assembly:

- Panel size:** 600 x 600 mm
- Clear opening:** 540 x 540 mm
- Approx. 30mm:** Dimension indicating the gap between the panel and the ceiling.
- Labels:**
  - 1: Panel
  - 4: Ceiling
  - 5: Fire-resistant concrete slab
  - 6: Perimeter seal
  - 7: Screws

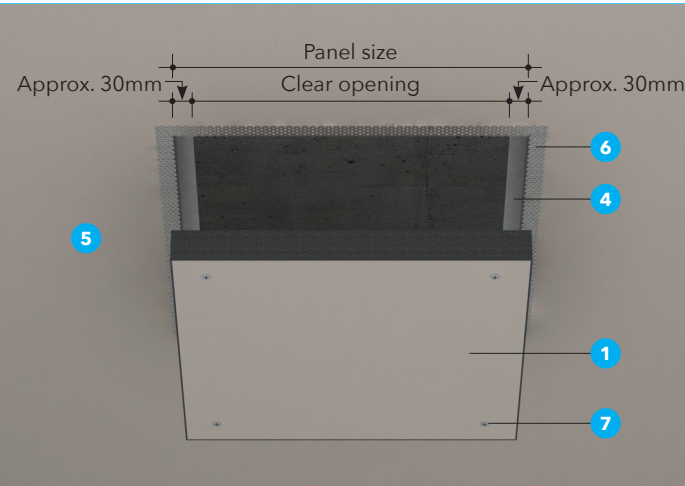
Fire Resistance	FRL	-/120/120	System code: PMF.15.12	
	Standard	BS 476: Part 20 & 22: 1987		
Construction	Panel size (mm)	Clear opening (mm)	Approx. height (mm)	Approx. weight (kg)
	600 x 600	540 x 540	65	14.4 ±10%

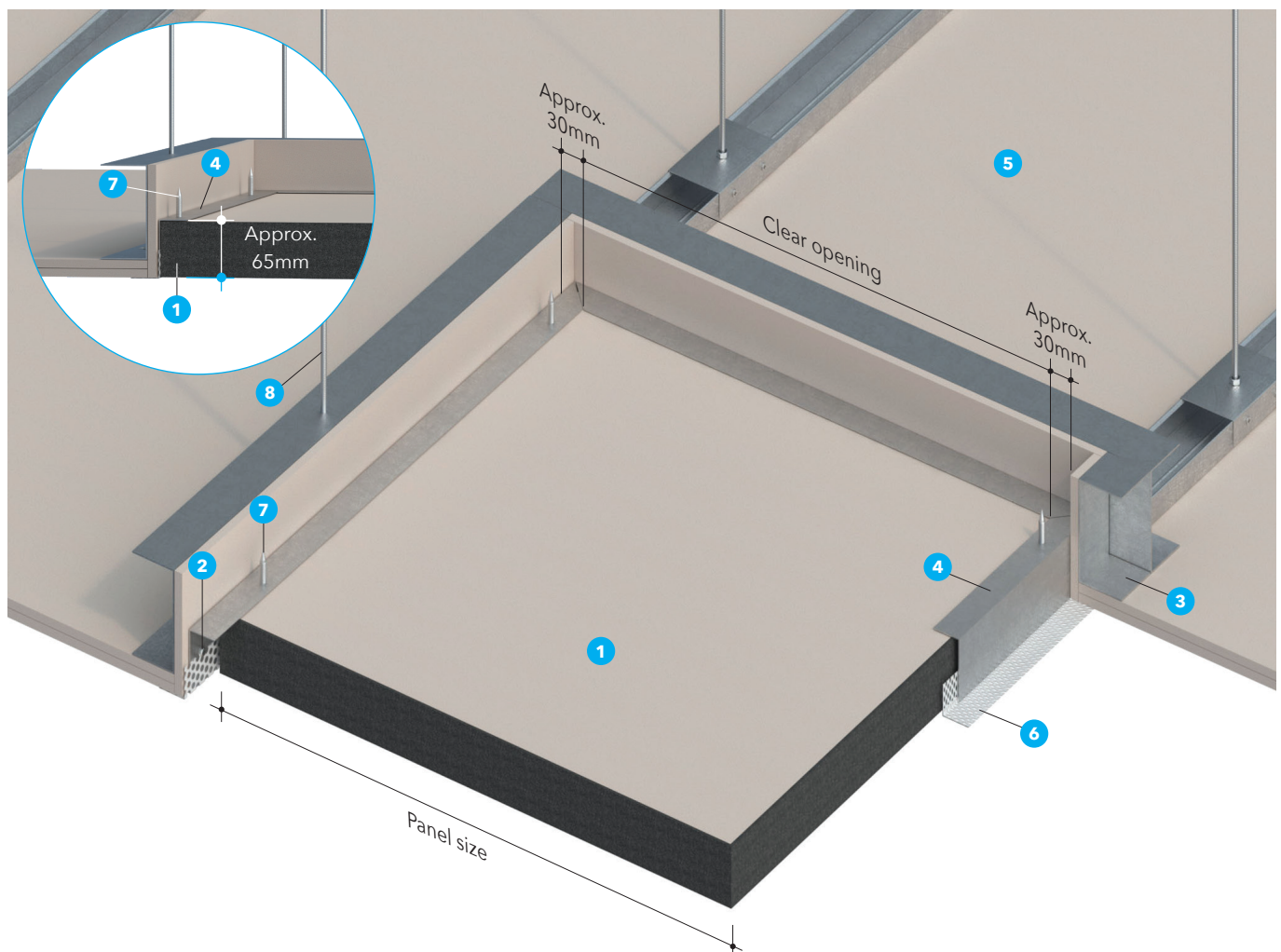


1. Promat Access Panel.
2. No. 4 pan head to secure access panel to reinforced framework.
3. Min. U-100 x 50 x 1.5mm additional reinforced framework around access panel to be provided by others.
4. Access panel framing.
5. Fire resistant ceiling.
6. Perimeter corner bead.
7. Screw fixing.



## PROMINA® 60 2-hour fire rated fixed access panels (Suspended ceiling)

	Fire Resistance	FRL	-/120/120		System code: PMF.15.12	
		Standard	BS 476: Part 20 & 22: 1987			
	Construction	Panel size (mm)	Clear opening (mm)	Approx. height (mm)	Approx. weight (kg)	
		450 x 450	390 x 390	65	7.8 ±10%	
		600 x 600	540 x 540	65	14.4 ±10%	



1. Promat Access Panel.
2. No. 4 pan head to secure access panel to reinforced framework.
3. Steel channel U-100 x 50 x 1.5mm additional reinforced framework around access panel to be provided by others.
4. Access panel framing.
5. Fire resistant ceiling.
6. Perimeter corner bead.
7. Screw fixing.
8. Suitable steel rod hanger to be provided by others.

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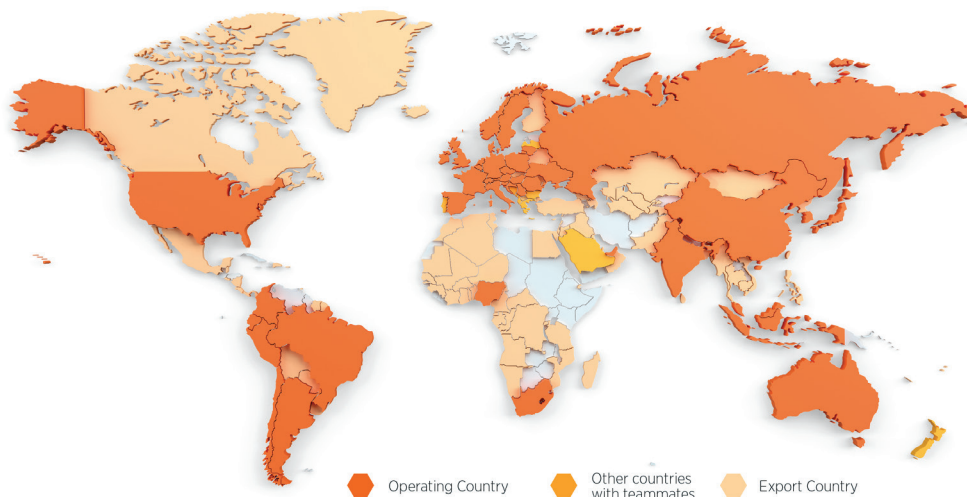
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## About Etex

Etex is an international building materials specialist; the company wants to inspire people around the world to build living spaces that are ever more safe, sustainable, smart and beautiful. Founded since 1905 and headquartered in Belgium, Etex currently operates more than 110 sites including plants, quarries and offices in 42 countries with over 11,000 employees globally.

Etex fosters a collaborative and caring culture, a pioneering spirit and a passion to always do better for its customers. Building on its experience and global market needs, the company strives to improve its customers quality of living with ever more effective lightweight solutions.

Its three R&D centres support four global sales divisions:

- **Building Performance:** Leader in plasterboards and fibre cement boards, and the global reference in passive fire protection solutions for the residential and commercial segments.
- **Exteriors:** Provider of innovative, durable, high performance and beautiful fibre cement exterior materials for architectural, residential and agricultural projects.
- **Industry:** Front runner of engineering expertise to drive the future of high performance thermal and acoustic insulation as well as passive fire protection in the industrial, aerospace and energy sectors.
- **New Ways:** As a new division created in January 2020, New Ways offers high-tech offsite modular solutions based on wood and steel framing.

Etex is Inspiring Ways of Living, for more information, please visit our website: [www.etexgroup.com](http://www.etexgroup.com)