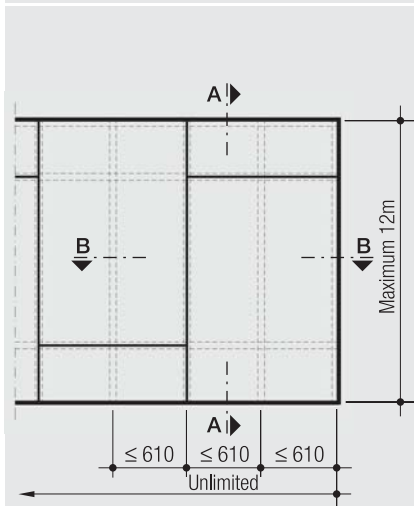
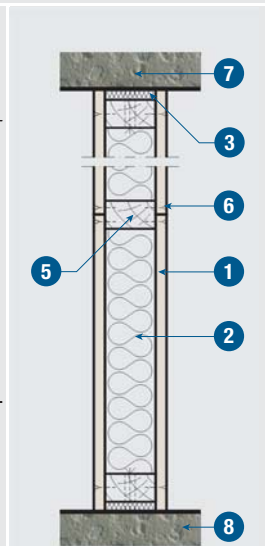


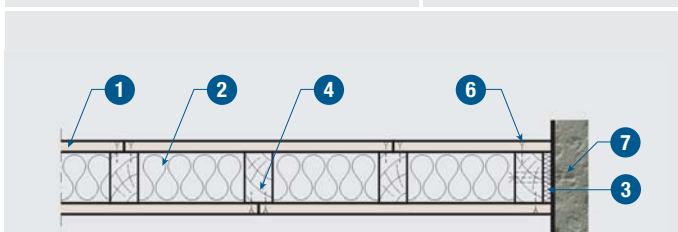
Installation Method



Detail 1 Elevation



Detail 2 Vertical section A-A



Detail 3 Horizontal section B-B

TECHNICAL DATA

1/2 hour fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: 75mm

- 1 PROMATECT®-H boards, each side 6mm thick
- 2 Mineral wool, raw density $\geq 23 \text{ kg/m}^3$, 60mm thick
- 3 Mineral wool seal
- 4 Timber stud 63mm x 50mm at 610mm spacing
- 5 Timber rail
- 6 50mm long round head nails at nominal 200mm centres
- 7 M6 steel anchor bolt at nominal 600mm centres
- 8 Concrete wall or floor slab

1 hour fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: 81mm

- 1 PROMATECT®-H boards, each side 9mm thick
- 2 Mineral wool, raw density $\geq 23 \text{ kg/m}^3$, 80mm thick
- 3 Mineral wool seal
- 4 Timber stud 63mm x 50mm at 610mm spacing
- 5 Timber rail
- 6 50mm long round head nails at nominal 200mm centres or 50mm x No.8 screws at nominal 300mm centres
- 7 M6 steel anchor bolt at nominal 600mm centres
- 8 Concrete wall or floor slab

1 1/2 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: 81mm

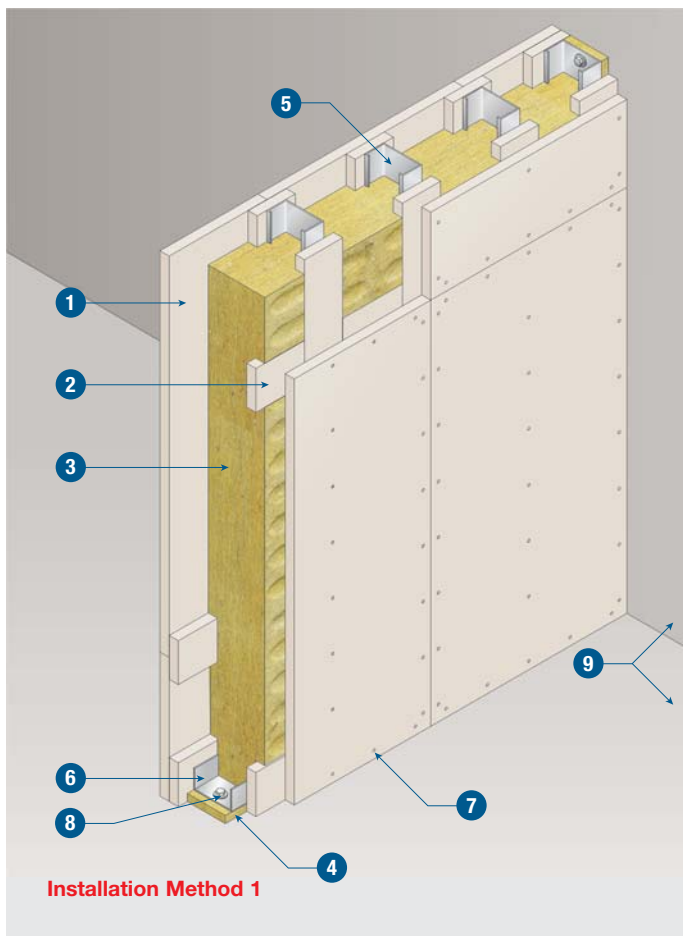
- 1 PROMATECT®-H boards, each side 9mm thick
- 2 Mineral wool, raw density $\geq 100 \text{ kg/m}^3$, 50mm thick
- 3 Mineral wool seal
- 4 Timber stud 63mm x 50mm at 610mm spacing
- 5 Timber rail
- 6 50mm long round head nails at nominal 200mm centres or 50mm x No.8 screws at nominal 300mm centres
- 7 M6 steel anchor bolt at nominal 600mm centres
- 8 Concrete wall or floor slab

2 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: 87mm

- 1 PROMATECT®-H boards, each side 12mm thick
- 2 Mineral wool, raw density $\geq 100 \text{ kg/m}^3$, 60mm thick applied in 2 layers of 30mm thickness with all joints staggered between layers
- 3 Mineral wool seal
- 4 Timber stud 63mm x 50mm at 610mm spacing
- 5 Timber rail
- 6 63mm long round head nails at nominal 200mm centres or 63mm x No.8 screws at nominal 300mm centres
- 7 M6 steel anchor bolt at nominal 600mm centres
- 8 Concrete wall or floor slab

NOTE: The above construction details can be installed up to 3m high. Details for walls above 3m high are available on request.



TECHNICAL DATA

1/2 hour fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

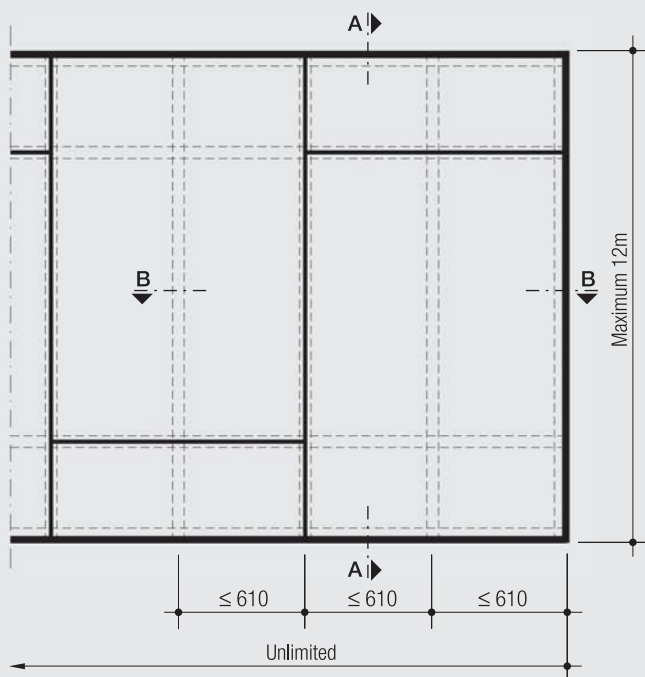
Nominal thickness of partition: 74mm
Sound transmission class: ≈ STC 41

- 1 PROMATECT®-H boards, each side 6mm thick or PROMINA® 60 boards, each side 9mm thick
- 2 PROMATECT®-H strips 50mm wide, each side 6mm thick or PROMINA® 60 strips 100mm wide, each side 9mm thick
- 3 Mineral wool, raw density $\geq 23 \text{ kg/m}^3$ by 60mm thick or none if using PROMINA® 60 9mm thick boards
- 4 Mineral wool seal (optional)
- 5 Steel stud 50mm deep x 0.6mm thick at 610mm spacing
- 6 Ceiling and floor perimeter steel channel 50mm deep x 0.6mm thick
- 7 M4 self-tapping screws at nominal 200mm centres
- 8 M6 steel anchor bolt at nominal 600mm centres
- 9 Concrete wall or floor slab

1 hour fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

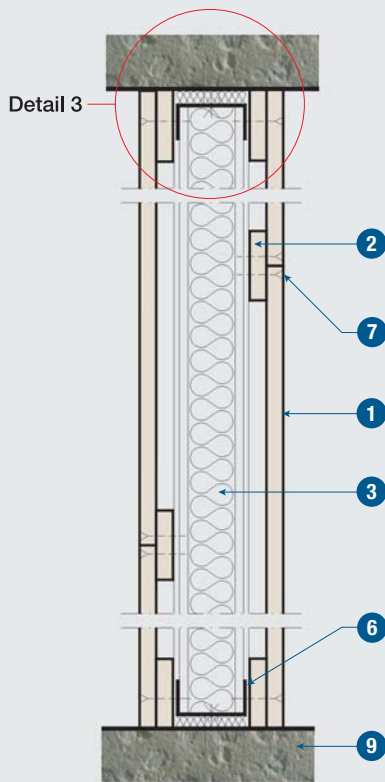
Nominal thickness of partition: 86mm
Sound transmission class: ≈ STC 46

- 1 PROMATECT®-H boards, each side 9mm thick or PROMINA® 60 boards, each side 9mm thick
- 2 PROMATECT®-H strips 50mm wide, each side 9mm thick or PROMINA® 60 strips 100mm wide by 9mm thick
- 3 Mineral wool, raw density $\geq 23 \text{ kg/m}^3$ by 80mm thick or $\geq 40 \text{ kg/m}^3$ by 50mm thick
- 4 Mineral wool seal (optional)
- 5 Steel stud 50mm deep x 0.6mm thick at 610mm spacing
- 6 Ceiling and floor perimeter steel channel 50mm deep x 0.6mm thick
- 7 M4 self-tapping screws at nominal 200mm centres
- 8 M6 steel anchor bolt at nominal 600mm centres
- 9 Concrete wall or floor slab

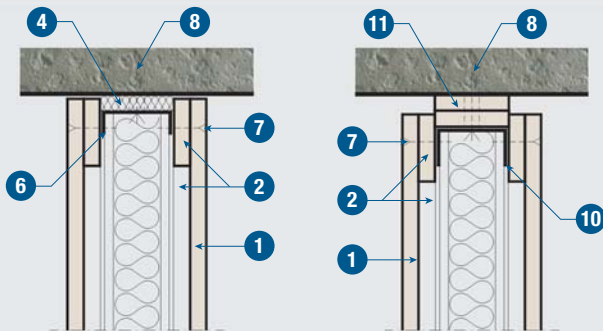


Detail 1 Elevation

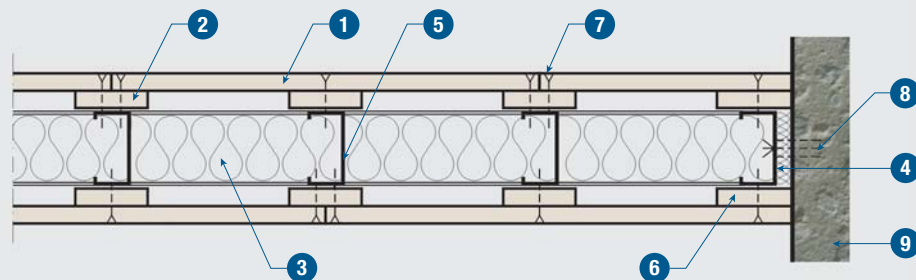
(continued on next page)



Detail 2 Vertical section A-A



Detail 3



Detail 4 Horizontal section B-B

TECHNICAL DATA

(continued from previous page)

2 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

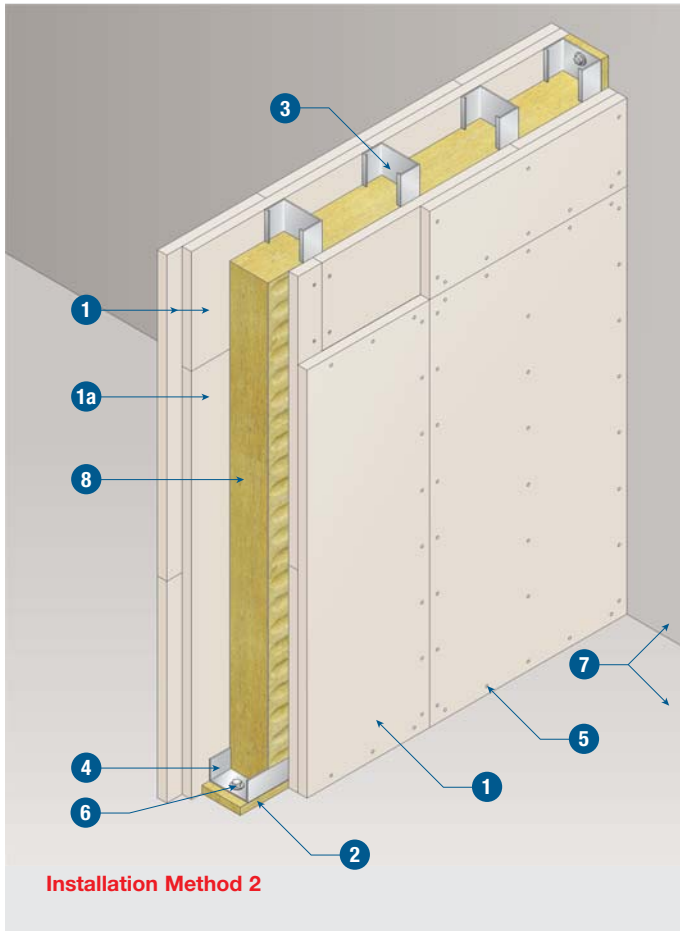
Nominal thickness of partition: 86mm
Sound transmission class: ≈ STC 51

- 1 PROMATECT®-H boards, each side 9mm thick
- 2 PROMATECT®-H strips 100mm wide, each side 9mm thick
- 3 Mineral wool, raw density $\geq 70 \text{ kg/m}^3$ by 50mm thick or $\geq 50 \text{ kg/m}^3$ by 70mm thick applied in 2 layers with all joints staggered between layers
- 4 Mineral wool seal (optional)
- 5 Steel stud 50mm deep x 0.6mm thick at 610mm spacing
- 6 Ceiling and floor perimeter steel channel 50mm deep x 0.6mm thick
- 7 M4 self-tapping screws at nominal 200mm centres
- 8 M6 steel anchor bolt at nominal 600mm centres
- 9 Concrete wall or floor slab

NOTE: The above partitions are approved for heights up to 3m using framing members as detailed, these constructions are approved for heights up to 12m with slight construction amendments, please consult Promat technical department for details.

240 minutes rating for integrity only in accordance with the relevant criteria of BS 476: Part 22 can be met using a construction utilising similar steel studs as detailed above, with a single layer of 9mm PROMATECT®-H fixed onto one face only. Please note that the board should be placed on the fire risk side as this construction is not symmetrical.

Steel stud partitions constructed using minimum 9mm PROMATECT®-H fulfill the relevant criteria of BS 5234 with regard to impact resistance, stiffness etc. Please consult your local Promat office for construction details.



TECHNICAL DATA

2 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: 113mm

- 1 PROMINA® 60 board, each side 9mm thick
- 1a Fire rated gypsum board, each side 15mm thick
- 2 Mineral wool seal
- 3 Steel stud 65mm x 38mm x 0.8mm at 610mm centres
- 4 Ceiling and floor perimeter steel channel 65mm x 65mm x 0.8mm
- 5 M4 self-tapping screws at nominal 300mm centres
- 6 M6 steel anchor bolt at nominal 600mm centres
- 7 Concrete floor slab or wall

4 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: 136mm

Sound transmission class: ≈ STC 62

- 1 PROMATECT®-H boards, each side 2 layers x 9mm thick with the horizontal and vertical joints between boards staggered by a minimum of 600mm
- 2 Mineral wool seal
- 3 Steel stud 100mm x 50mm x 1.5mm at 900mm centres
- 4 Ceiling and floor perimeter steel channel 100mm x 50mm x 1.5mm
- 5 M6 self-tapping screws at nominal 300mm centres
- 6 M6 steel anchor bolt at nominal 600mm centres
- 7 Concrete floor slab or wall
- 8 Mineral wool, raw density $\geq 80 \text{ kg/m}^3$, 100mm thick applied in 2 layers of 50mm thickness with all joints staggered between layers

6 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

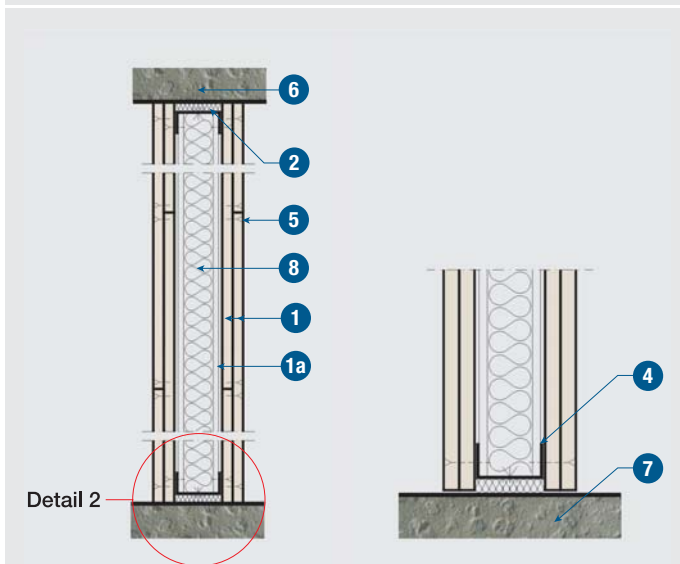
Nominal thickness of partition: 148mm

Sound transmission class: ≈ STC 66

- 1 PROMATECT®-H boards, each side 2 layers x 12mm thick with the horizontal and vertical joints between boards staggered by a minimum of 600mm
- 2 Mineral wool seal
- 3 Steel stud 100mm x 50mm x 1.5mm at 900mm centres
- 4 Ceiling and floor perimeter steel channel 100mm x 50mm x 1.5mm
- 5 M6 self-tapping screws at nominal 300mm centres
- 6 M6 steel anchor bolt at nominal 600mm centres
- 7 Concrete floor slab or wall
- 8 Mineral wool, raw density $\geq 110 \text{ kg/m}^3$, 100mm thick applied in 2 layers of 50mm thickness with all joints staggered between layers

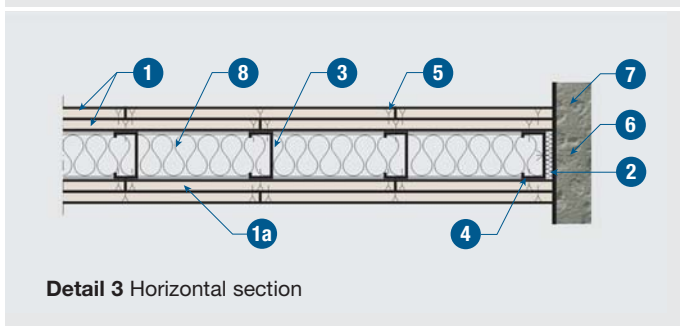
NOTE: The vertical joints between boards will not necessarily coincide with the steel studs, and therefore the two layers of boards should be stitched together using 25mm dry wall type screws at nominal 300mm centres.

NOTE: The above partitions are approved for heights up to 3m using framing members as detailed, these constructions are approved for heights up to 12m with slight construction amendments, please consult Promat technical department for details.

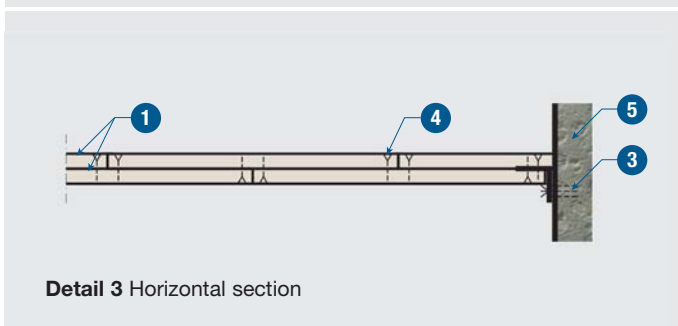
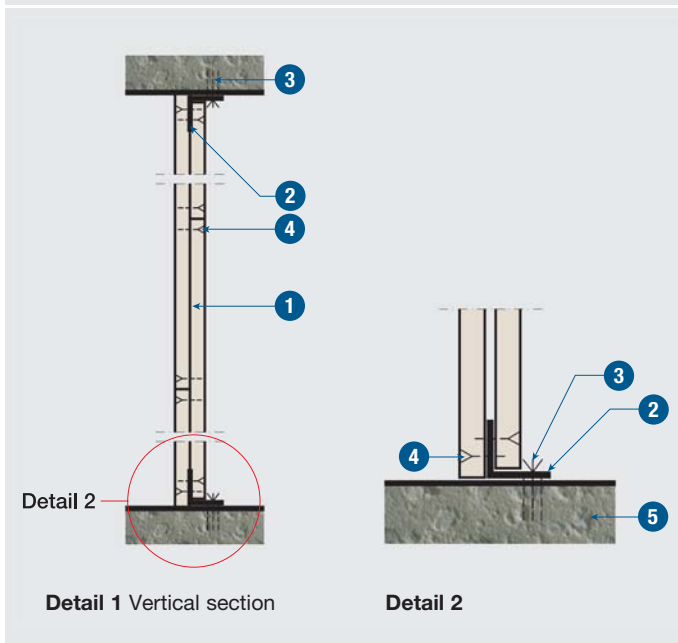
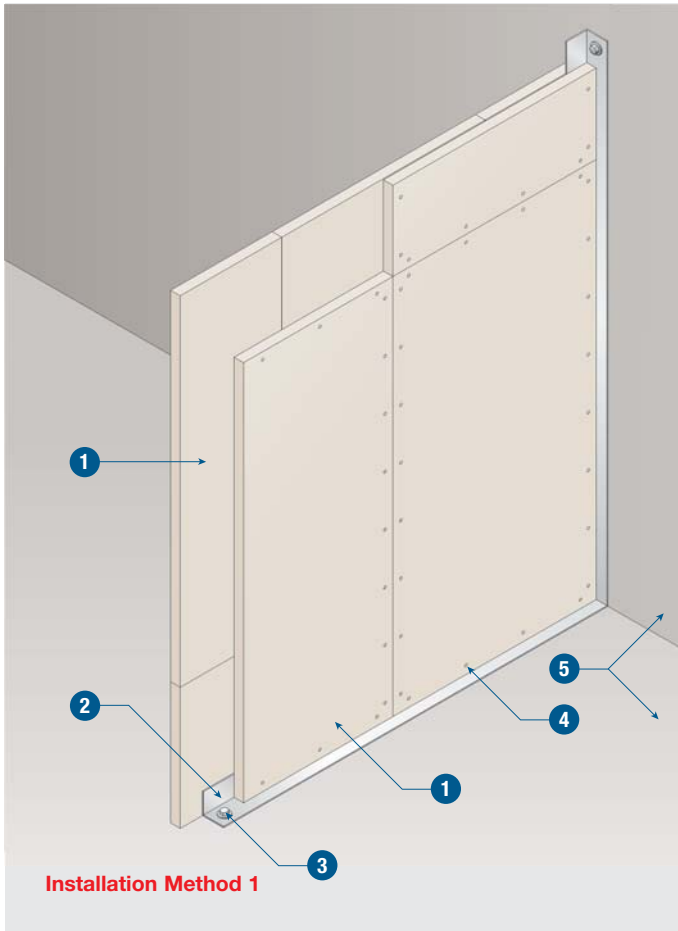


Detail 1 Vertical section

Detail 2



Detail 3 Horizontal section



TECHNICAL DATA

1 hour fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: ≈ 36mm

- 1 PROMATECT®-H boards, 20mm + 15mm
Stagger joints by at least 300mm, fix 20mm layer first
- 2 Steel angle frame 50mm x 50mm x 1mm
- 3 M6 steel anchor bolt at nominal 500mm centres
- 4 Self tapping screws or similar

First layer 20mm, fixed to perimeter angle using 30mm x No.8 screws, at 200mm centres. Second layer 15mm, fixed to first layer using 30mm x No.8 screws at 300mm centres around the perimeter and down the centre of each panel. Take care not to overturn screws

- 5 Concrete wall or floor slab

1½ hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: ≈ 41mm

- 1 PROMATECT®-H boards, 20mm + 20mm
Stagger joints by at least 300mm
- 2 Steel angle frame 50mm x 50mm x 1mm
- 3 M6 steel anchor bolt at nominal 500mm centres
- 4 Self tapping screws or similar

First layer fixed to perimeter angle using 30mm x No.8 screws at 200mm centres. Second layer fixed to first layer using 35mm x No.8 screws at 300mm centres around the perimeter and down the centre of each panel. Take care not to overturn screws

- 5 Concrete wall or floor slab

2 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22 and AS 1530: Part 4.

Nominal thickness of partition: ≈ 51mm

- 1 PROMATECT®-H boards, 20mm + 15mm + 15mm or 2 x 25mm
Stagger joints by at least 300mm, fix 20mm layer first
- 2 Steel angle frame 50mm x 50mm x 1mm
- 3 M6 steel anchor bolt at nominal 500mm centres
- 4 Self tapping screws or similar

First layer 20mm, fixed to perimeter angle using 30mm x No.8 screws at 200mm centres. Second layer 15mm, fixed to first layer using 30mm x No.8 screws at 300mm centres around the perimeter and down the centre of each panel. Third layer 15mm, fixed to first two layers using 45mm x No.8 screws at 300mm centres around the perimeter and down the centre of each panel. Take care not to over tighten screws

- 5 Concrete wall or floor slab

4 hours fire rating, integrity in accordance with the criteria of BS 476: Part 22, and AS 1530: Part 4 with Insulation Criteria of 90 and 120 minutes.

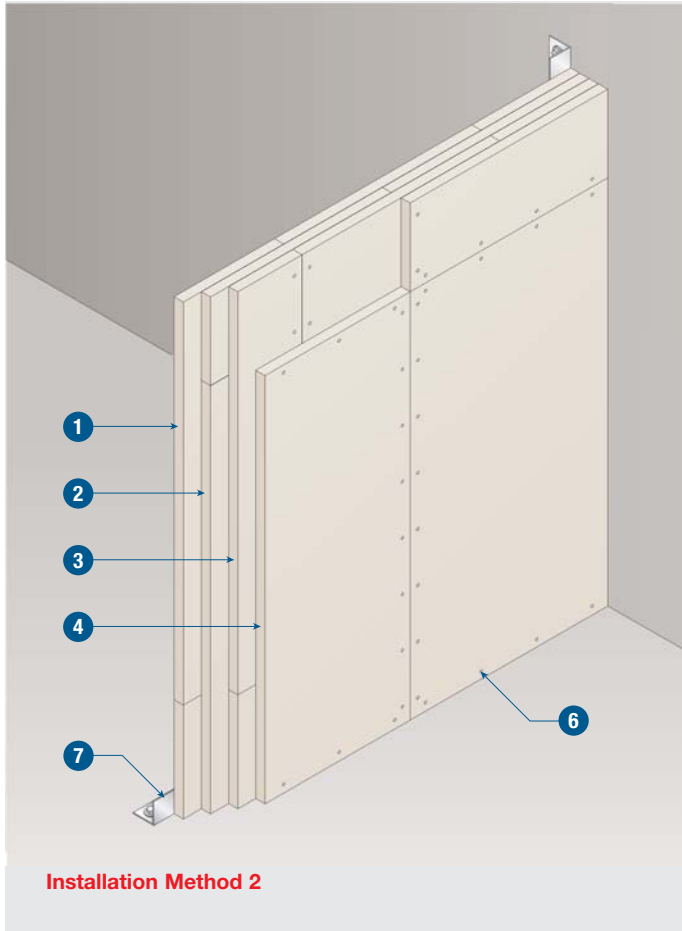
Nominal thickness of partition: ≈ 41mm or 51mm

- 1 **For 90 minutes insulation:**
PROMATECT®-H 20mm + 20mm, stagger joints by at least 300mm
- For 120 minutes insulation:**
PROMATECT®-H 25mm + 25mm, Stagger joints by at least 300mm
- 2 Steel angle frame 50mm x 50mm x 1mm
- 3 M6 steel anchor bolt at nominal 500mm centres
- 4 Self tapping screws or similar

First layer fixed to perimeter angle using 30mm x No.8 screws at 200mm centres. Second layer fixed to first layer using 35mm x No.8 screws at 300mm centres around the perimeter and down the centre of each panel. Take care not to overturn screws

- 5 Concrete wall or floor slab

NOTE: The above construction details are applicable for up to 3.5m high. Details for walls above 3.5m high are available on request.

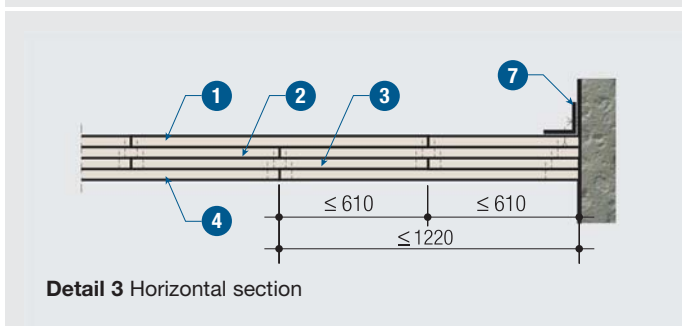
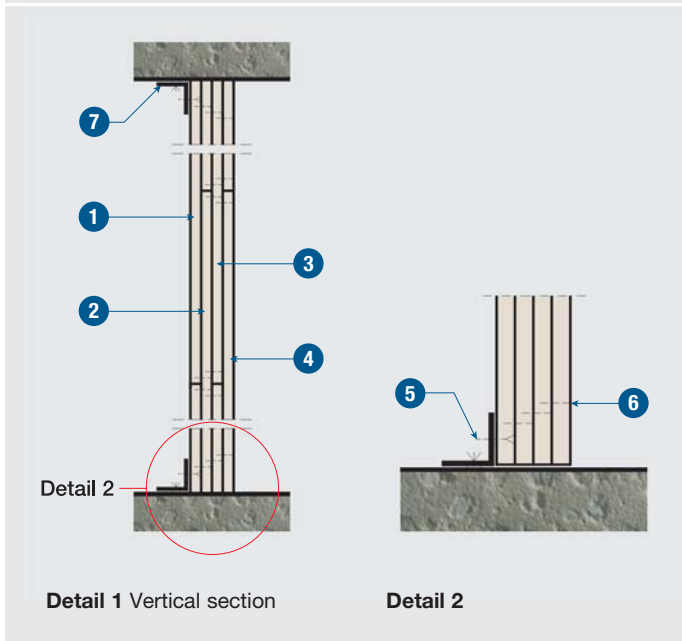


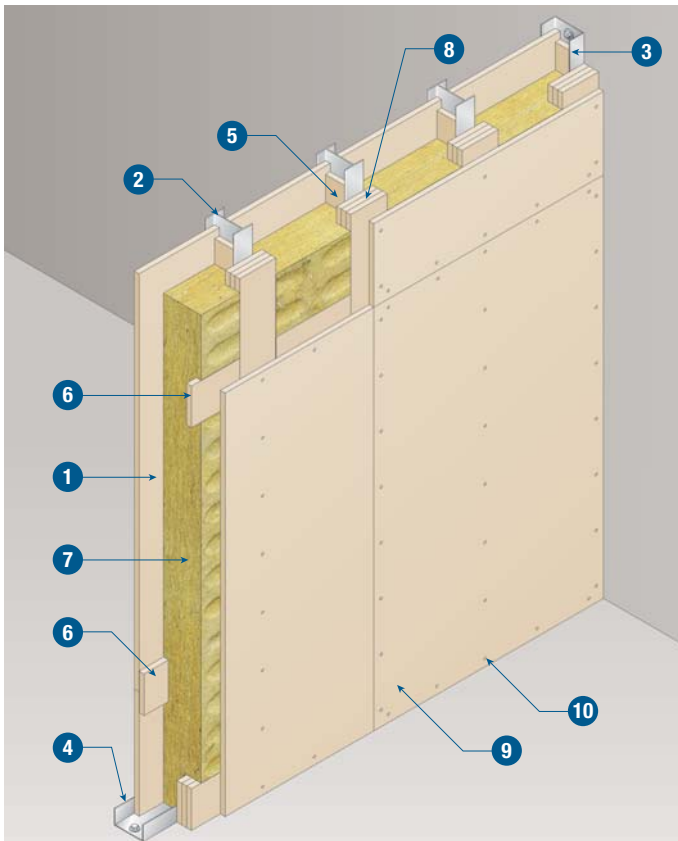
TECHNICAL DATA

4 hours fire rating, integrity and insulation in accordance with the criteria of ASTM E119.

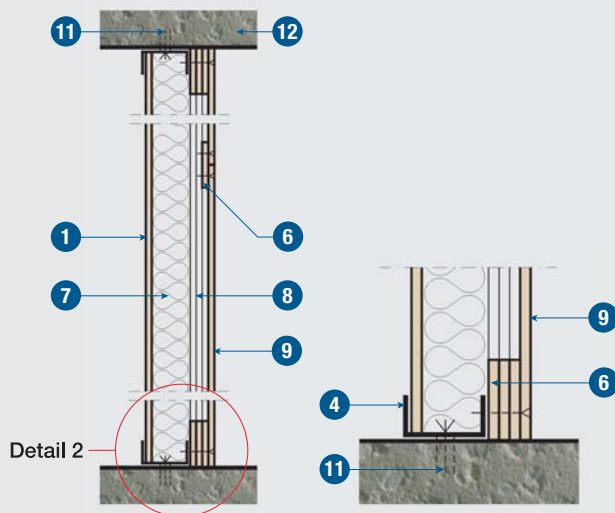
- 1 First layer: PROMATECT®-H board, 25mm thick
- 2 Second layer: PROMATECT®-H board, 25mm thick
- 3 Third layer: PROMATECT®-H board, 25mm thick
- 4 Fourth layer: PROMATECT®-H board, 25mm thick
- 5 Self-drilling bugle head screw fastener No.8 x 40mm
- 6 13mm x 45mm staples at 150mm centres
- 7 Galvanised steel angle 32mm x 32mm x 1.2mm

NOTE: The above construction details are applicable for up to 3.5m high. Details for walls above 3.5m high are available on request.



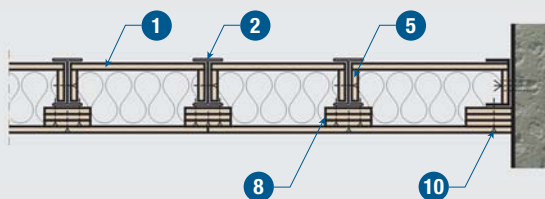


Installation Method 2



Detail 1 Vertical section

Detail 2



Detail 3 Horizontal section

The following system is applicable for use in those areas where the full integrity and insulation performance is required, but where access for construction is possible from one side only (e.g. Lift shafts etc).

This construction is designed to fulfil the criteria of the relevant standards relating to the compartmentation of lift shafts, and to provide resistance to positive and negative pressures resulting from the movements of the elevators etc.

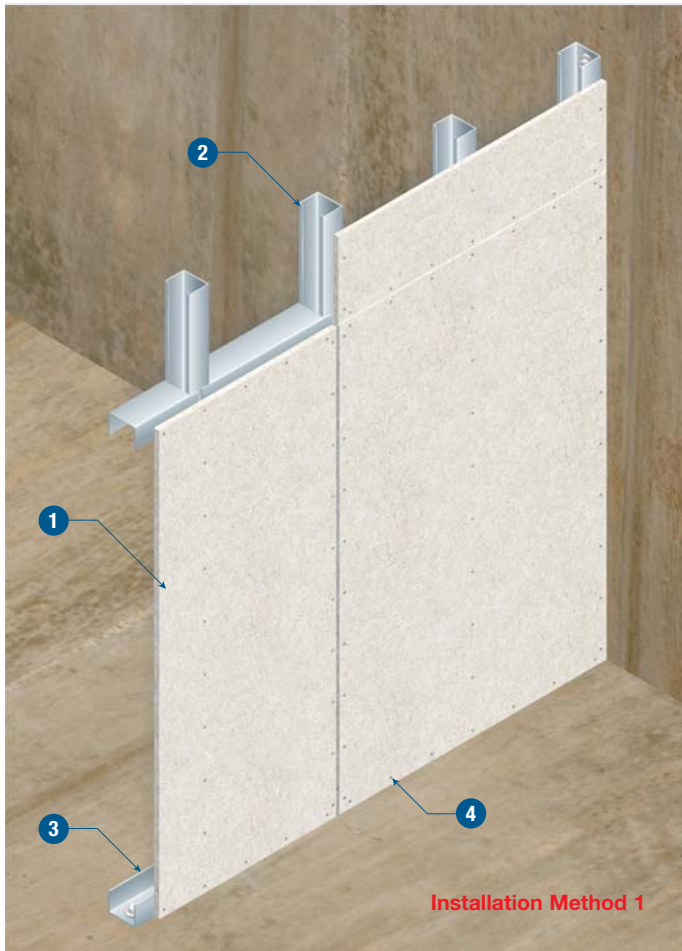
The below details are suitable for wall heights of up to 3000mm between substrates. For construction to greater heights, please consult Promat Technical Department.

TECHNICAL DATA

1 hour and 2 hours fire rating, integrity and insulation in accordance with the criteria of BS 476: Part 22: 1987

- 1** PROMINA® 60 board, 9mm thick
- 2** I-studs 60mm x 39mm x 0.55mm at 610mm intervals
- 3** Stud 60mm x 30mm x 0.5mm at edge of shaft wall partition
- 4** Stud 60mm x 30mm x 0.5mm as top and bottom track
- 5** PROMINA® 60 filler strips, 9mm thick x 45mm wide
- 6** PROMINA® 60 cover strips, 9mm thick x 100mm wide at joints
- 7** **1 hour fire rating:**
Mineral wool 60mm thick x 45 kg/m³
2 hours fire rating:
Mineral wool 75mm thick x 100 kg/m³
- 8** **1 hour fire rating:**
PROMINA® 60 cover strips, 2 x 9mm thick x 100mm wide
2 hours fire rating:
PROMINA® 60 cover strips, 3 x 9mm thick x 100mm wide
- 9** PROMINA® 60 board, 9mm thick
- 10** Self-tapping or self-drilling screws at 200mm centres
- 11** Threaded rod with nuts and washers at 600mm centres

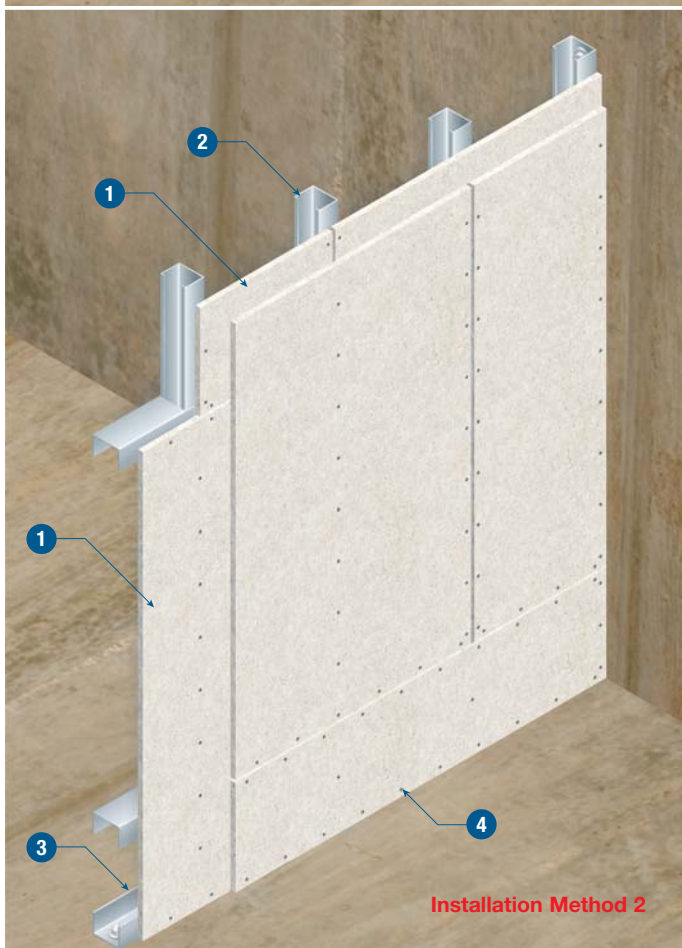
NOTE: Steel stud partitions constructed using minimum 9mm PROMATECT®-H fulfill the relevant criteria of BS 5234 with regard to impact resistance, stiffness etc. Please consult your local Promat office for construction details.



TECHNICAL DATA

2 hours fire rating, integrity only in accordance with the criteria of BS 476: Part 22 with fire from board side.

- 1 PROMATECT®-H boards, 9mm thick
- 2 Steel stud 50mm x 38mm x 0.6mm thick at 610mm centres
- 3 Ceiling and floor perimeter steel channel 50mm x 38mm x 0.6mm thick fastened to concrete with M6 steel anchors at 500mm centres
- 4 M4 self-tapping screws at nominal 200mm centres



TECHNICAL DATA

4 hours fire rating, integrity only in accordance with the criteria of BS 476: Part 22 with fire from board side.

- 1 PROMATECT®-H boards, 2 layers x 9mm thick
- 2 Steel stud 48mm x 38mm x 0.6mm thick at 610mm centres
- 3 Ceiling and floor perimeter steel channel 50mm x 38mm x 0.6mm thick fastened to concrete with M6 steel anchors at 500mm centres
- 4 M4 self-tapping screws at nominal 300mm centres

NOTE: The construction detailed herein is suitable for heights up to 3.5m. These systems can be installed for heights up to 12m. Please consult Promat Technical Department for details of the framing members required to achieve greater heights.