

PROMASEAL® FIRE BARRIER

INTRODUCTION

Promat PROMASEAL® Fire Barrier batts are slabs of high density rock wool (160 kg/m³) with a white endothermic ablative coating.

PROMASEAL® Fire Barrier is used to stop the spread of smoke and fire through openings in fire resistant walls and floors where these are used for the passage of building and communications services. PROMASEAL® Fire Barrier is cut to size to achieve a tight friction fit within openings in dry lined, masonry and concrete walls. The PROMASEAL® Fire Barrier can be split around services or assembled from several smaller pieces.

INSTALLATION

- Ensure that all service penetrations are installed as required (PROMASEAL® Fire Barrier can be reworked after installation to allow extra penetrations to be added)
- Remove all combustible materials from the hole/opening.
- Using a dustpan and brush, sweep away all loose debris from the inner surface of the hole and surrounding area.
- Place plastic sheeting beneath the working area to catch any falling material.
- Remove any insulation or lagging from pipe penetrations in order to ensure a good seal between the PROMASEAL® Fire Barrier and PROMASEAL® Pipewrap.
- Measure the size of the opening and position/size of services to ensure a tight friction fit.

- The surround of the seal opening can be taped off with masking tape to ensure a neat finish of the PROMASEAL® Fire Barrier coating covering the perimeter edge of the seal overlapping onto the surrounding substrate
- Mark the outline shape of the required seal onto the batt and cut out using a saw.
- Using a trowel or pallet knife apply a layer of PROMASEAL® Fire Barrier Coating onto the perimeter area of the seal within the areas in contact with the opening and also 'buttered' onto the edges of the batt. This will ensure a bead of the coating is pushed to the back-face of the batt during installation. Therefore, it is not critical to cover the joints at the rear of the batt with PROMASEAL® Fire Barrier coating if access to the rear of the installation is a problem. If the rear face of the batt is damaged and rock wool inner core exposed, PROMASEAL® Fire Barrier Coating must be applied to fully seal all exposed areas.
- Fit the PROMASEAL® Fire Barrier batt into position with the flat of the hand ensuring a tight friction fit.
- Where PROMASEAL® Fire Barrier batts are cut to accommodate passage of services through the batt, the batt should be cut to tight-fit into the opening and tight-fit around the service penetrations.
- PROMASEAL® Fire Barrier Coating must be used to point-in any service penetrations through the batt.
- Services penetrating the batt should be rigidly supported no further than 500mm from both sides of the PROMASEAL® Fire Barrier seal face using steel angles, channels or hangers on both sides of the batt.
- The PROMASEAL® Fire Barrier batt must be installed using as few pieces of PROMASEAL® Fire Barrier as possible, with all pieces tight-fitted into position with minimal gaps and all edges sealed with PROMASEAL® Fire Barrier Coating.

PLASTIC PIPE PENETRATIONS

110mm diameter PVC pipe (wall thickness 6mm) or 82mm diameter polypropylene pipe (wall thickness 5.5mm) plastic pipe penetrations can be fire stopped using PROMASEAL® Pipe Wrap. The PROMASEAL® Fire Barrier batt is installed around the pipe penetration as above, the PROMASEAL® Pipewrap is folded around the pipe to be protected and secured tightly in position by means of the attached adhesive tape (supplied). It is then slid along the pipe until it is contained within the prepared opening. The PROMASEAL® Pipewrap is grouted into position using PROMASEAL® Fire Barrier Coating and sealed with PROMASEAL® Intumescent Sealant.

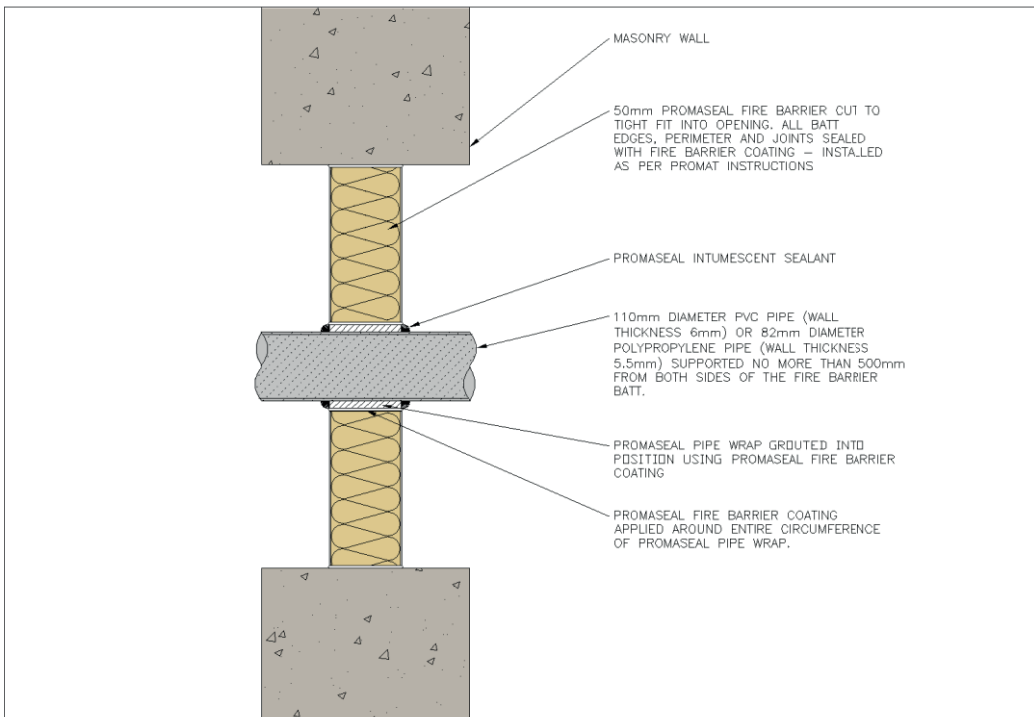
Refer to TDS116 FIGURE 01 and TDS116 FIGURE 02 shown on page two of this document.

All services must be adequately separated and spaced no closer than 200mm from other services/penetrations or the aperture perimeter.

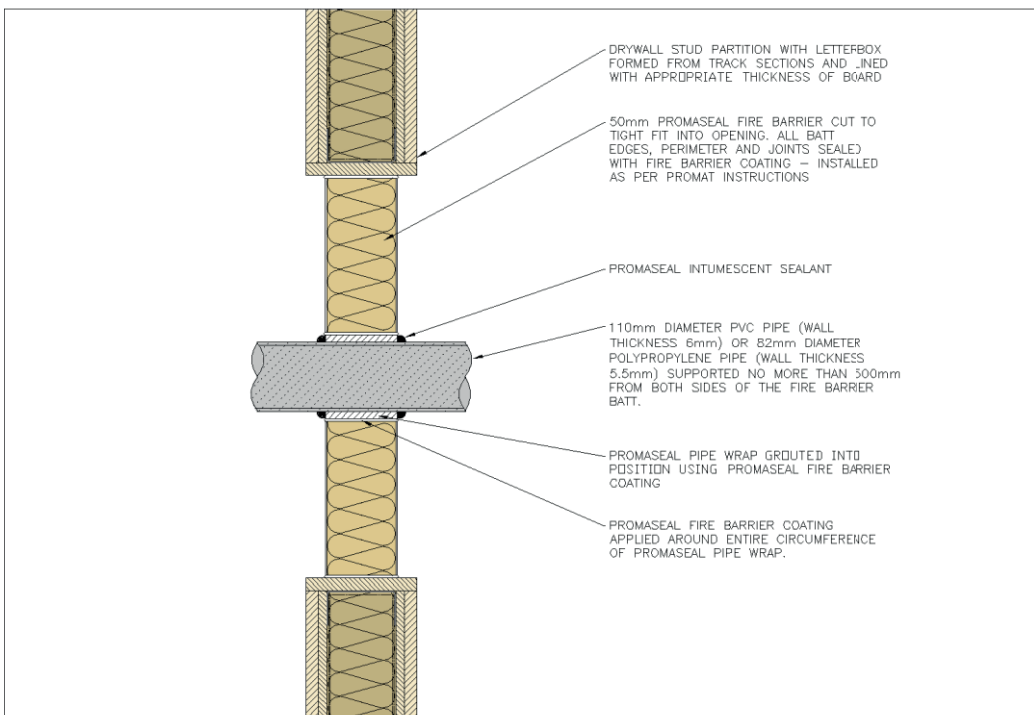
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TDS116 FIGURE 01: Promat PROMASEAL® Fire Barrier Installed within a Masonry or Blockwork Wall - Plastic Pipe Fire Stopping



TDS116 FIGURE 02: Promat PROMASEAL® Fire Barrier Installed within a Drywall Stud Partition - Plastic Pipe Fire Stopping



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MAXIMUM APERTURE:

2880mm by 1440mm. Multiple PROMASEAL® Fire Barrier apertures must be separated by a minimum of 400mm in drywalls and 240mm in concrete/masonry constructions. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.

The walls shall be a minimum of 66mm thick.

CONCRETE/MASONRY WALLS:

The minimum density for the concrete or brick wall is 780kg/m³ and for concrete block walls is 600kg/m³. Boards tightly friction fitted into the aperture at mid-depth of the wall.

Board joints and the board to aperture junction is sealed with Promaseal Fire Barrier Coating. Multiple PROMASEAL® Fire Barrier apertures must be separated by a minimum of 240mm in concrete/masonry constructions.

GYPSUM DRYWALLS:

Partition drywalls will comprise at least 1 layer of minimum 12.5mm thick Type 'F' gypsum board on each side of minimum 70mm x 32mm steel studs. The aperture must be formed from track sections and be lined with a layer of 12.5mm thick Type 'F' gypsum board. Multiple PROMASEAL® Fire Barrier apertures must be separated by a minimum of 400mm in gypsum drywall constructions.

PROMAT SUPALUX® DRYWALLS:

SUPALUX® steel stud drywalls will comprise at least one layer of minimum 9mm thick SUPALUX® board on each side of minimum 48mm x 35mm steel studs. For further details of this construction Certifire Certificate No. CF420A should be consulted. Apertures must be formed from track sections and be lined with a layer of minimum 9mm thick SUPALUX® board. Multiple PROMASEAL® Fire Barrier apertures must be separated by a minimum of 400mm in SUPALUX® drywall constructions.

SERVICE COAT-BACK:

Not required.

SERVICE SUPPORT REQUIREMENTS:

Services should be rigidly supported via steel angles, hangers or channels, no further than 500mm from the surface of the sealing system on both faces.

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