

Marmox Fireboard Ceiling Specifications

Specifications are given for three different ceiling types.

Click the underlined REFERENCE code below to be hyper-linked to a particular specification.

REFERENCE

DESCRIPTION

[Concrete ceiling](#)

a plastered, insulating board on a concrete ceiling

[Direct to Joists](#)

a plastered, insulating board direct on wooden or metal ceiling joists

[Boarded Ceiling](#)

a plastered, insulating board onto an existing plasterboard ceiling

Specification - Marmox Fireboard on a concrete ceiling providing acoustic and thermal insulation

Product Ref: Marmox Fireboard

Product Use: Non-combustible substrate for plaster offering acoustic and thermal insulation to the underside of a concrete ceiling or soffit as an alternative to plasterboard.

Manufacturer: Marmox Ltd

Address: Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.
01634 835290; Email: sales@marmox.co.uk; <http://www.marmox.co.uk/>.

Description: A dense core of mineral wool covered on both sides with fibreglass mesh encased in a c.1.0mm layer of polymer modified concrete permanently bonded to the mineral wool core.

Dimensions: Width = 600mm, Length = 1200mm, Thickness = 12, 20, 50, 100mm

Properties: Low thermal conductivity (0.037W/mK) and acoustic insulation
Certified (BRE) as completely non-combustible (Class A1)

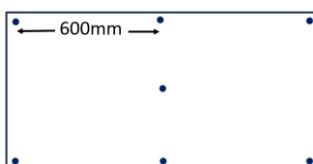
UKCA mark: Declaration of Performance for a Mineral Wool Insulation Board to EN13162: 2012

Fixing Method: Marmox Fireboard board is adhered to the ceiling of soffit with either: -

- a) seven screws and washers per board or
- b) seven insulation support anchors per board for a fireproof ceiling

Vapour Barrier: A liquid vapour barrier should be applied to the underside of the ceiling before installing the Fireboards.

- Mark the location of the boards on the ceiling.
- The boards will eventually be fixed with SEVEN mechanical fixings at approximately 600mm centres and on in the middle as shown below. (*Fixings should be approximately 30mm away from the edge of the boards*)



- If using screws and washers only: mark the fixing points and drill c.35mm deep holes and add plugs.
- If this board is abutting a wall, apply a line of intumescent sealant* along the edge of the mineral wool layer so that when in position, it is sealing the mineral wool slab to the wall.
- Hold the board in place whilst and fix with either screws and Marmox metal washers into the pre-drilled plugs or use 'insulation support anchors. The length of these anchors must ensure there is at least 40mm impregnation into the concrete.
- Subsequent boards should be tightly butt jointed
- Any gaps between boards must be filled with sealant / intumescent sealant*.

Concrete Ceiling

Specification - on a concrete ceiling providing acoustic and thermal insulation

Sealant*: An acoustic intumescent sealant should be used around the perimeter and to fill in any gaps between boards. *One 300ml tube will typically be sufficient for approximately four panels.*

Plastering: Scrim tape (*Marmox reinforcing tape*) is applied over all joints.
Dampen the surface of the Marmox board prior to plastering.
A single skim of plaster is recommended for this application.

Specification – direct onto a wooden or metal joisted ceiling providing acoustic and thermal insulation

Product Ref: Marmox Fireboard

Product Use: Non-combustible substrate for plaster offering acoustic and thermal insulation to the underside of a joisted ceiling as **an alternative to plasterboard**.

Manufacturer: Marmox Ltd

Address: Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.
01634 835290; Email: sales@marmox.co.uk; <http://www.marmox.co.uk/>.

Description: A dense core of mineral wool covered on both sides with fibreglass mesh encased in a c.1.0mm layer of polymer modified concrete permanently bonded to the mineral wool core.

Dimensions: Width = 600mm, Length = 1200mm, Thickness = 12, 20, 50, 100mm

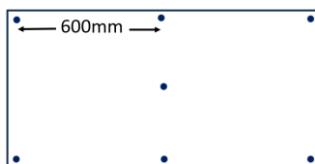
Properties: Low thermal conductivity (0.037W/mK) and acoustic insulation
Certified (BRE) as completely non-combustible (Class A1)

UKCA mark: Declaration of Performance for a Mineral Wool Insulation Board to EN13162: 2012

Fixing Method: Marmox Fireboard board is used instead of plasterboard so is fixed to the joists with 7 mechanical fixings.

Vapour Barrier: If a vapour barrier is not already present in the ceiling, a polythene or other certified vapour barrier must be fitted before installing the Fireboards. This is fixed to the underside of joists typically with staples.

- Determine the location of the boards on the ceiling ensuring that all long sides will be supported by a joist or overhang no more than 100mm.
- Ensure that there is wood above the board approximately in the middle so that a fixing can be placed approximately through the centre of the board
- Short edges are supported either with a noggin directly above the edge or no more than 100mm from it. Additional wooden noggins or steel struts should be added when necessary.
- Boards are fixed to the underside of the joists and noggins (*which when necessary have been covered with a polythene or similar vapour barrier*) using 7 screws and washers (*at 600mm centres around the edge with one fixing in the centre*)



Direct to Joists

Specification – direct onto a wooden or metal joisted ceiling providing acoustic and thermal insulation

- If this board is abutting a wall, apply a line of sealant / intumescent sealant* along the edge of the mineral wool layer so that when in position, it is sealing the mineral wool slab to the wall.
- Apply a line of Marmox MSP-360 onto the joists (*on top of the polythene*) so that it will seal to the boards.
- Press the board evenly onto the joists whilst at the same time fixing with wood screws and metal washers.
- Subsequent boards should be tightly butt jointed
- Any gaps between boards must be filled with intumescent sealant*.

Sealant*: Marmox MSP-360 is NOT a fire-resistant sealant – an acoustic intumescent sealant should be used around the perimeter and to fill in any gaps between boards. *One 300ml tube will typically be sufficient for approximately three to four panels.*

Plastering: Scrim tape (*Marmox reinforcing tape*) is applied over all joints.
Dampen the surface of the Marmox board prior to plastering.
A single skim of plaster is recommended for this application.

Specification – onto an existing plasterboard ceiling

Product Ref: Marmox Fireboard

Product Use: Non-combustible substrate for plaster offering additional acoustic and thermal insulation to the underside of an existing plasterboard ceiling.

Manufacturer: Marmox Ltd

Address: Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.
01634 835290; Email: sales@marmox.co.uk; <http://www.marmox.co.uk/>.

Description: A dense core of mineral wool covered on both sides with fibreglass mesh encased in a c.1.0mm layer of polymer modified concrete permanently bonded to the mineral wool core.

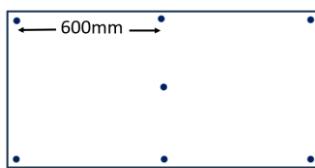
Dimensions: Width = 600mm, Length = 1200mm, Thickness = 12, 20, 50, 100mm

Properties: Low thermal conductivity (0.037W/mK) and acoustic insulation
Certified (BRE) as completely non-combustible (Class A1)

UKCA mark: Declaration of Performance for a Mineral Wool Insulation Board to EN13162: 2012

Fixing Method: Marmox Fireboard board is fixed to the underside of an existing layer of plasterboard with 7 mechanical fixings into the joists above.

- Determine the location of the joists and mark them.
- Position the Fireboards so that the board edges are located below where the joists are.
- Boards will be fixed through the plasterboard to the rafters above with SEVEN screws and metal washers at approximately 600mm centres dependent on the positioning of the rafters above. (*Fixings should be approximately 30mm away from the edge of the boards*)



- Hold the board in place whilst at the same time fixing into the joists behind the plasterboard with wood screws and Marmox metal washers.
- If the screw fixing through the middle of the board is not going into timber but just into plasterboard, a plasterboard fixing should be considered for this location.
- If this board is abutting a wall, apply a line of sealant along the edge of the mineral wool layer so that when in position, it is sealing the mineral wool slab to the wall.
- Subsequent boards should be tightly butt jointed
- Any gaps between boards must be filled with sealant.

Specification – onto an existing plasterboard ceiling

Sealant*: An acoustic sealant should be used around the perimeter and to fill in any gaps between boards. *One 300ml tube will typically be sufficient for approximately three to four panels.*

Plastering: Scrim tape (*Marmox reinforcing tape*) is applied over all joints.
Dampen the surface of the Marmox board prior to plastering.
A single skim of plaster is recommended for this application.