



Fire & Acoustic Socket/ Switch Box Cover

**Tested beyond requirements,
site friendly,
easy to fit**

The use of recessed switch and socket boxes in walls is widespread in private, public and commercial buildings. The walls are subject to fire regulations and most will have to be fire rated.

However, once a hole is made in the wall for a recessed switch or socket box, the integrity of the construction and its ability to perform in a fire can be reduced significantly, in addition the ability for the wall to provide an effective acoustic barrier is also impaired.

The prevention of fire from entering wall cavities and attacking the structure is critical to the overall fire integrity of the building.

To combat this Aico and its manufacturing partner, as part of its continuing development of passive fire and acoustic protection solutions, has developed a fire and acoustic socket / switch box cover.



Cut away view of installation



Rear view of installation



Installation of box

Key Features & Customer Benefits

- Maintains the fire protection performance of the wall- preventing or delaying the spread of fire for up to 120 minutes.
- Prevents or delays fire from entering a wall cavity and attacking the building structure.
- Cover even works when fitted back-to-back in uninsulated walls.
- Provides an effective acoustic barrier to both impact and airborne sounds.
- Covers fit in seconds.
- The covers are pre-formed to fit the boxes.
- Simple and fast mechanical fixing, no adhesives, no mess.
- Can be fitted in dusty conditions.
- Can be retro fitted to existing sockets /switches or fitted during wall construction.
- Covers can be stapled in position if fitted during wall construction.
- Replaces time consuming plasterboard lining of sockets / switches.
- The switch / socket box can be removed without disturbing or replacing the cover.
- No additional screws, drilling or support required- saves money.
- Covers available to fit both single & double boxes.

Test Data

Aico Firecap switch / socket covers have been fire tested to BS 476 part 20 in an uninsulated plasterboard wall construction for 120 minutes without failure in either insulation or integrity.

Test number - Chilt/IF07001 & Chilt/IF07015

The material has been independently acoustically tested by Sound Research Laboratories to BS EN150 140-3:1995/BS 2750-3:1995.

Test number - C-97-5L-7295-2





Fire & Acoustic Socket/ Switch Box Cover

The covers have been developed to provide maximum protection for penetrations created by the introduction of both single and double recessed switch/socket boxes and to allow ease of fitting. In a fire situation, the cover expands internally to fill all of the available space with a fire resistant highly insulating char. The fire is unable to penetrate the hole and the cover is able to give additional insulation protection to the wall void by reducing the chance of heat build up and the ignition of flammable structural members. The penetration in the wall also provides a path for air, thus creating heat loss and drafts, the fitting of a Firecap AFA cover reduces this problem.

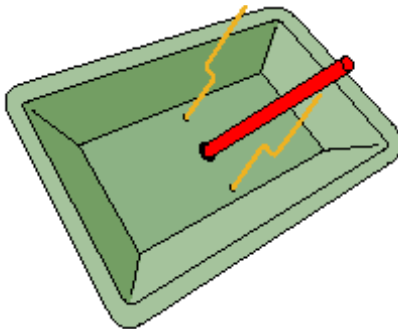
Fitting Instructions

AFA1 - Aico Fire & Acoustic Single Box Cover

AFA2 - Aico Fire & Acoustic Twin Box Cover

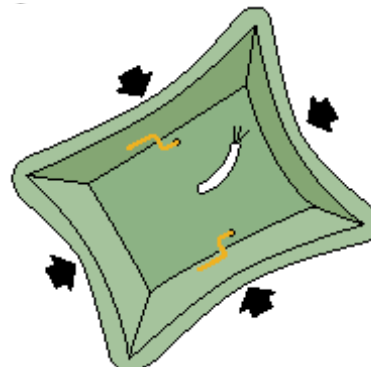
Step 1

Push wire legs through holes in cover. Pierce the cover with a pencil and pass through cables



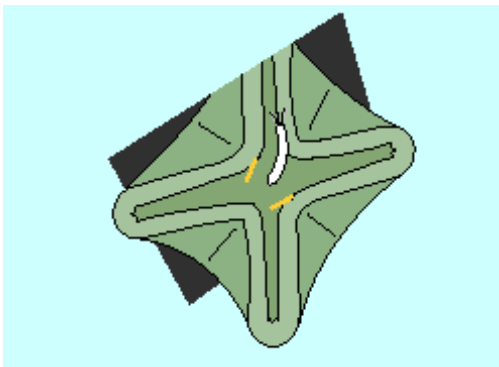
Step 2

With the wire legs vertical, fold in sides until cover is a tight flat rectangle



Step 3

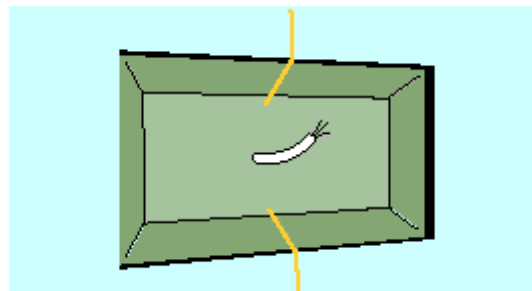
Holding on to the wire legs pass the cover through the switch / socket cut out and allow to spring back into shape



Step 4

Pull the wire legs through the cut out until the steps in the wire can locate on the face of the wall*, small notches can be made in the plasterboard to allow wire to sit flush

Cut away excess wire from legs. Fit box as normal



Sizes

The Socket/Switch Box Covers are designed to fit all common single and double boxes.

* In a wall with two layers of plasterboard on each face, the ends of the fixing wires can be pushed between the plasterboard layers.