

Multifix Air installation boxes

Setting a new standard in energy efficiency



P11080

Why must energy disappear when energy is installed?



95%

Multifix Air reduces
air leakage with 95%.

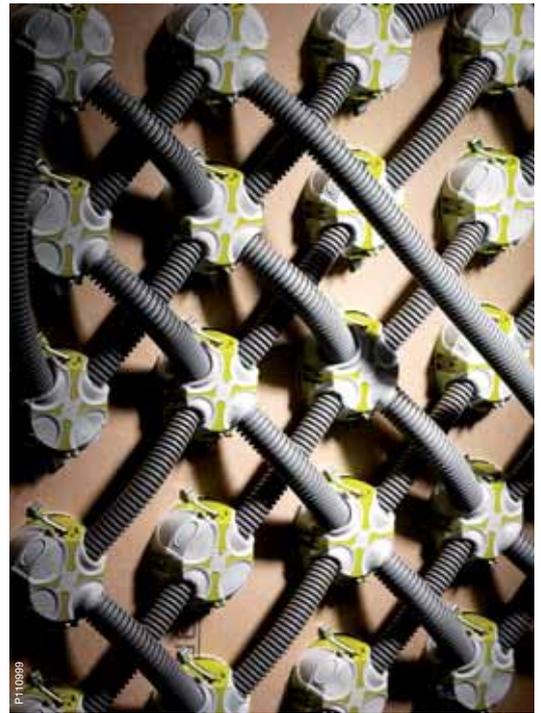
Don't waste that energy. Here is the airtight solution!

It's a very interesting paradox: Houses often start leaking energy, the minute they have had energy installed! How come?

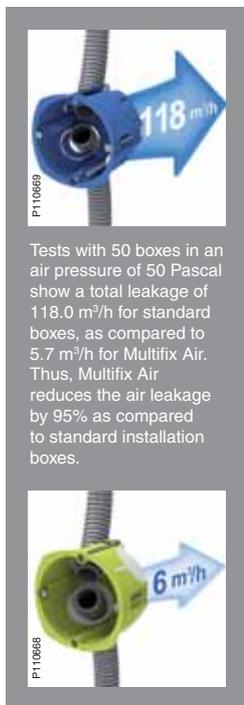
It's not as strange as it sounds. Of course holes are being made in the outer walls while mounting a new installation box. That's why each box allows air to leak out of the house. This will disturb the indoor climate.

An air conditioned house gets a few extra degrees to struggle with. A heating system has to work much harder to keep the temperature on the right level in winter. Since each degree plus or minus results in a higher consumption of energy, the house owner will have to pay big money for the installation of energy in the long run.

So that's why your choice of installation boxes is more important than you might think. And that's why we have invented Multifix Air – a completely new range of energy efficient installation boxes! Each box is designed to make your installations airtight, yet keeping easiness, safety and functionality at the highest level.

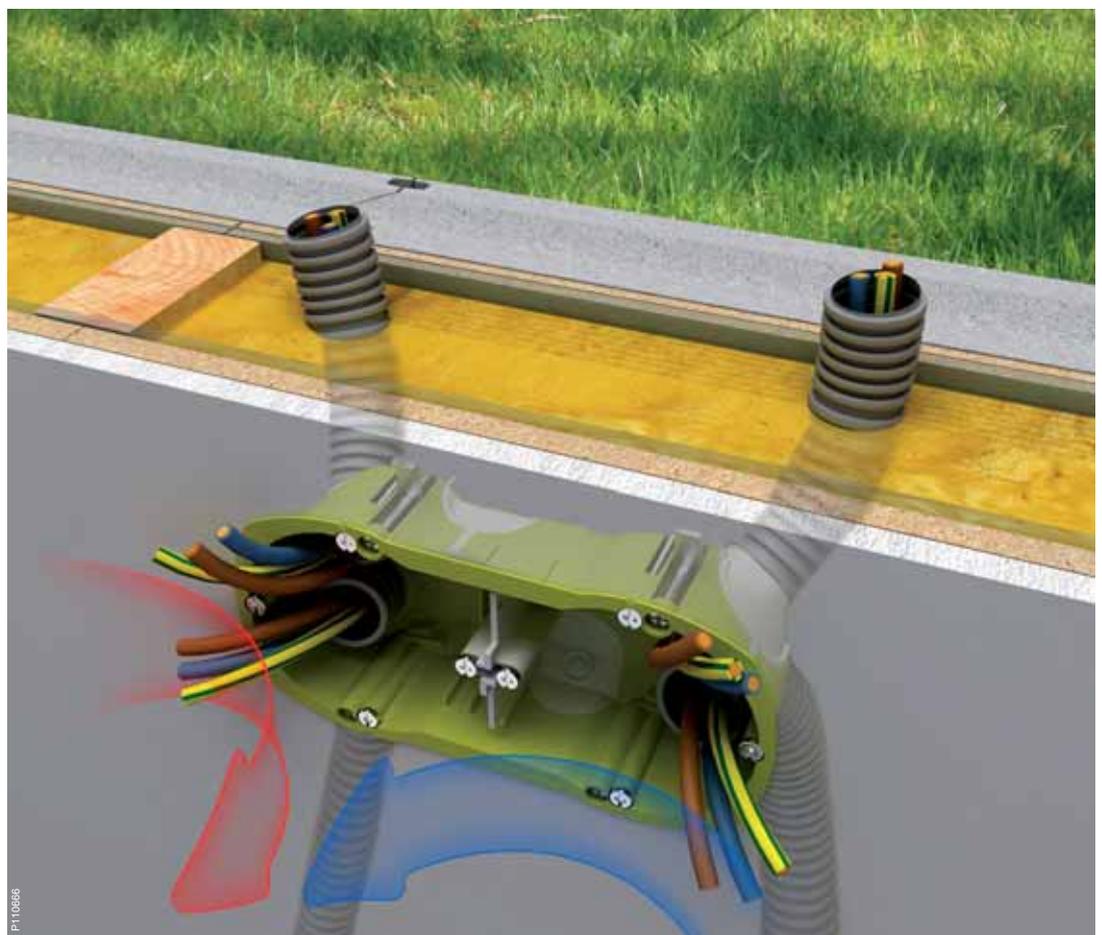


The advantages of Multifix Air are thoroughly tested and documented. Read more about it on page 6.



Tests with 50 boxes in an air pressure of 50 Pascal show a total leakage of 118.0 m³/h for standard boxes, as compared to 5.7 m³/h for Multifix Air. Thus, Multifix Air reduces the air leakage by 95% as compared to standard installation boxes.

Multifix Air is really an energy efficient solution. The boxes reduce the air leakage by 95% compared to standard installation boxes! This means that conditioned or heated air will stay indoors instead of leaking out, giving considerably reduced costs for the house owner.



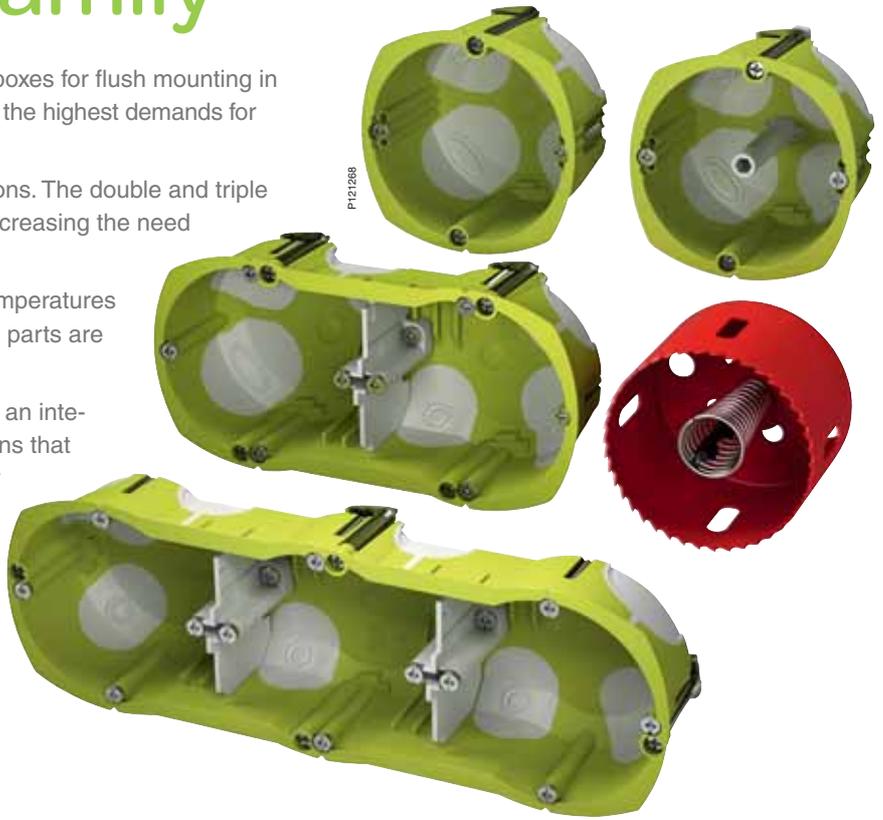
Meet the small but versatile Multifix Air family

The Multifix Air range consists of installation boxes for flush mounting in hollow walls and ceilings. All designed to meet the highest demands for energy saving.

Wide but thin collars hide eventual imperfections. The double and triple boxes have slightly narrowed center parts, decreasing the need for larger hole making.

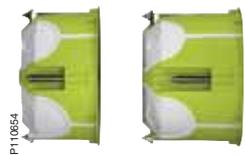
Multifix Air boxes are resistant to changing temperatures and can be used in most environments. Metal parts are zinc-plated to minimize the risk of corrosion.

The ingenious use of elastic membranes with an integrated knock-out is among the clever inventions that prevent air leakage. The membrane fits tightly around the conduit or cable, yet allows a high degree of flexibility, which makes the installation robust and enduring. All knock-outs are pre-marked and easily opened with just the conduit or cable.



Speed

At Schneider Electric we always think about saving your time. Each one of the Multifix Air components is therefore designed to speed up your work. The elastic sealing membranes, our kits, special tools and triple-threaded screws are some good examples of how this thought shapes our products.



Two depths

Choose the 40 mm box for ordinary devices. The 50 mm box can be used to make bypass connections behind the device or to install deeper devices.



Single, double or triple

You will surely find a box to match your needs in the Multifix Air range.



Pre-packed kits

The Multifix Air range offers several pre-packed kits. Convenient and time saving for you.



For ceiling

Our smart DCL ceiling box kit includes everything needed, cover, IPX4 DCL outlet with blanking plate, hook, suspension chimney, lighting plug with E27 base for a temporary light bulb and a DCL-plug 2 PE.



Accessories

The smart hole saw, the box covers, DCL plugs and outlets, the Grippl suspension kit are some of the accessories which are also perfectly compatible with the Multifix Air range.



The art of hole-making

The finish reveals the craftsmanship. Or the fact that you have discovered our special hole saw; a great tool which drills exact and sharp holes designed for Multifix Air.

Multifix Air also saves YOUR energy!

Don't be fooled by the lean and minimalistic design – these installation boxes are all jam-packed with innovations and ingenuity! Even if they may just look like pieces of plastic, every detail has its specific purpose aimed to make your job faster, easier and more professional. Look closer at these boxes to discover all the smart details.



Easy mounting/dismounting

The smart swivel construction together with the non-loosable screws also provide reversability. If you have to correct the installation, you can easily remove the box without damaging the wall, and re-use it again. No loss of fixing parts.

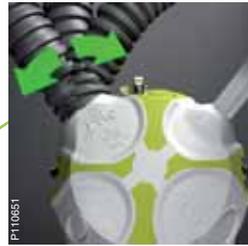
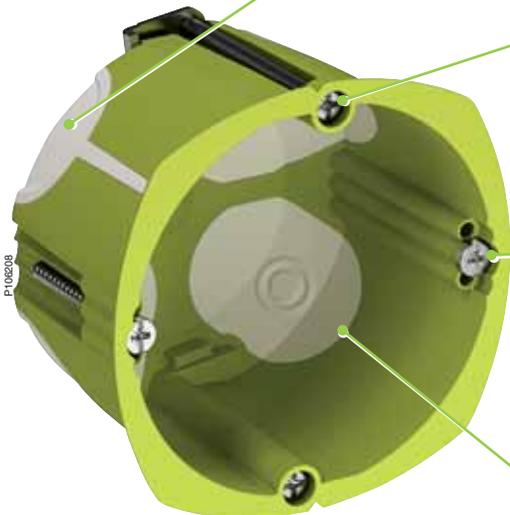
Meets the EN standard

The whole range meets the standard EN 60670-1.



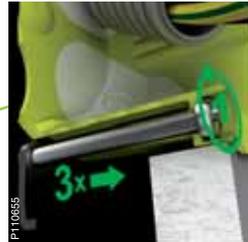
It's sturdy and flame-proof

The box is made of polypropylene. It's rigid, reliable and will not crack. Tests have shown it will keep its shape and full function up to 60° and down to -5°C. The Multifix Air boxes are all flame-proof. This means that they have "survived" the 850°C glow wire test.



Flexible but firmly fixed

Thanks to the airtight elastic membranes, each installed conduit or cable is safely fixed in its place, and yet flexible enough to adjust to the wanted position.



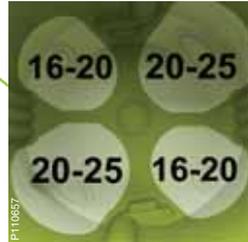
Fast and clever screws

The screws are "high-speed", i.e. triple-threaded. This will make the assembly 3 times faster. Each screw has a built-in stop end to prevent the loss of claws, which makes the box re-usable. Since the claw is made of metal you can use a power tool.



All kinds of walls, wiring devices and frames

The long screws make the boxes suitable for any type of wall, regardless of its thickness. The 60 mm fixing centers fit most wiring devices and handle both horizontal and vertical mounting frames. Three alternative fixing holes for the wiring device ensures a perfect result.



Knock-outs

The membranes have knock-outs suitable for a conduit diameter of 16–20 mm or 20–25 mm. No tools are needed, just push the conduit through the membrane. Cables with a minimum diameter of 9 mm can also be used, but only in the 16–20 mm knock-outs.

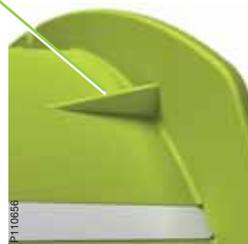


Double and triple box

The V-shaped marking notches in the collar show you where to drill. Once the holes are drilled you can easily cut away the material in between with a knife. The slightly narrowed parts will ease your work even more. Built-in separation walls can be removed if needed.

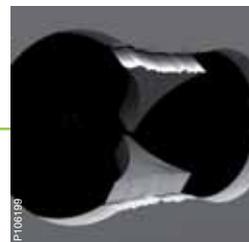
Anti-rotation system

The single boxes have four wings that ensure a perfect grip in all walls and prevents unwanted rotation of the box.



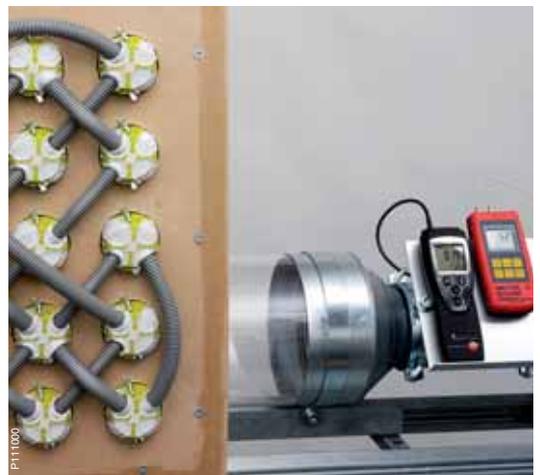
Hides imperfections

The wide and thin collar around the box hides any small mistakes in the hole-making. Thanks to its thin construction it will also minimize the gap between the wiring device and the wall.



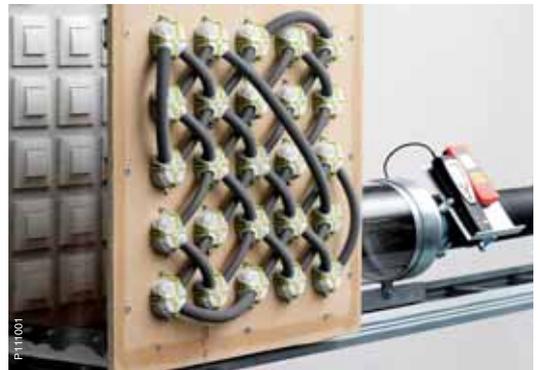
Thoroughly tested

Several tests reveal an overwhelming difference in air leakage when Multifix Air is compared with a regular installation box. Tests with 50 boxes in an air pressure of 50 Pascal show a total leakage of 118.0 m³/h for standard boxes, as compared to 5.7 m³/h for Multifix Air. Thus, Multifix Air reduces the air leakage by 95% as compared to standard installation boxes.



How the tests were carried out

Fifty installation boxes with wiring devices were mounted on two plasterboards. The air pressure was measured from 10 to 70 Pascal. A Testo 425 air flow meter, a Greissinger GMH 3160 air pressure meter and an ordinary ventilation fan were used. Both regular boxes and Multifix Air boxes with conduits carefully connected were tested. The results are documented.



850 °

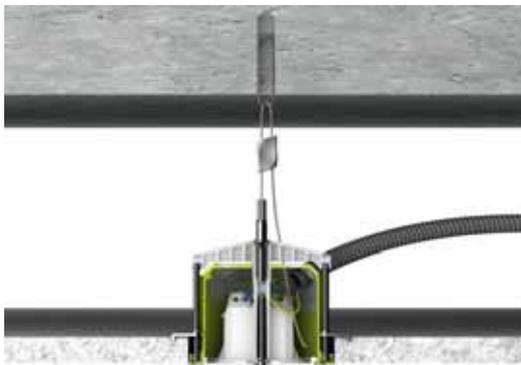
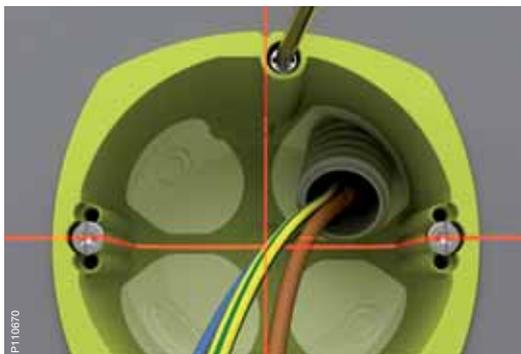
The Multifix Air boxes are all flame-proof according to the new European standard EN 60670-1. This means that they have "survived" the glow wire test, where a metallic pole is heated up to 850°C and placed into the box for 30 seconds.



Schneider Electric offers several solutions and products for better energy efficiency. Multifix Air is one of them. By choosing such a product you really make the most of your energy. Good for you and good for the planet!

Installation tips

Easy. Fast. Airtight and professional. And here is why these four words almost could serve as synonyms to Multifix Air:



Easy

As soon as you start using Multifix Air products you will notice the best installation tip of them all; no installation manual is needed. The important measures are of course also visible on the boxes, for example drill size, conduit sizes for the knock-outs and c/c measurement.

Fast

Easiness is not the only reason to use Multifix Air. As you might have noticed, fastness is the other important reason. Among all the things we have improved to save your time are...

- The hole saw – easy to center, just mark a fixing point and drill. You'll get a perfect hole without rough edges in no time!
- Elastic membranes that are easily opened with just the conduit or cable.
- The V-shaped marking notches on the single boxes make it very easy to fix the box in a correct vertical position, giving a perfect mounting of the wiring devices.

Safe

Don't let the insignificant size of this hook deceive you. Drill a hole in the ceiling, put the Sevenhook in place together with our grip system, and mount your lighting apparatus. It's the fastest, easiest and safest way to install heavy lamps, since this smart hook expands its grip more, the more weight it has to carry.



Airtight

The Multifix Air range meets the demands of energy saving and the requirements of the EN-standards and norms. It efficiently fixes conduits in place, yet allowing a useful flexibility, while maintaining air tightness between the conduit and the membrane. The boxes are very easy to handle and as simple to install as to dismount. A dismantled box is fully re-usable, so mistakes are easily corrected. All safety measures are met with features such as the separation wall in double boxes and the good rigidity of the materials used. When successfully installed the leakage of hot or cold air will definitely stop.

Professional

Metal claws, anti-rotating wings, integrated marking notches, alternative holes for wiring devices and hiding collars help you to achieve a professional end result. Since Multifix Air is a pro range, all the screws are made of robust metal, torque resistant and suitable for power tools.

Schneider Electric Industries SAS

35 rue Joseph Monier
92500 Rueil-Malmaison
France
www.schneider-electric.com

As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.



*This document has been printed
on ecological paper*

Publishing: Schneider Electric Industries SAS
Design: Leon
Printing: