Reliability designed to last years

Facade fixing
R-TFIX-8M

At Rawlplug, we boast about our experience spanning 100 years. However, we know that the construction industry is one that develops with great intensity, so we need to move with the times to keep up to date with the latest achievements. This is why we constantly invest in our development: technological lines, the research department, and new ideas. The result of all that is our extensive product offering, which includes new items such as the R-TFIX-8M hammer-in facade fixing with a metal nail.

Many requirements, one solution

We want to make sure that we respond as extensively as possible to the construction industry’s needs. The facade insulation and thermal upgrade segment is a very special area of the construction industry, with products that have to meet very diversified, but always high requirements of all the experts that use them: system providers, designers, as well as direct contractors performing the thermal insulation work. The industry’s requirements are as diversified as the scope of work and the needs of the professionals performing it, but the key ones can be summed up as ergonomics, performance, and obviously reliability. They inspired and guided us in the development of the R-TFIX-8M. By adding two words to them which are important for us, namely trust and innovation, we created a professional line of facade insulation fixings that meet the requirements related to technical performance, failure-free products, universality of application and comprehensive nature of the range, as well as working comfort and complementarity with regard to commonly used systems. The R-TFIX-8M facade fixing is Rawlplug’s latest development in the field of facade insulation fixings. It responds to the market’s urgent need for a fixing combining energy efficiency with high performance. During its development, we drew on the experience stemming from our close collaboration with experts and industry prac-

Here is a handful of important facts about R-TFIX-8M

**ENERGY EFFICIENCY** – recommended for energy efficient and passive buildings thanks to the reduction of point thermal transmittance to 0.001W/K.

**UNIQUE DESIGN** – the 5-times-longer thermal barrier guarantees a reduction of energy losses and of facade discoloration risk.

**QUICKEST INSTALLATION** – two-step application: place the fixing in the hole you have drilled and hammer it in, without using any power tools or accessories.
tioners to take into account their day-to-day needs. The result is a new facade fixing with a hammer-in metal nail for all substrates – a durable and easily applicable solution which can be used with all kinds of insulation materials in surface and countersunk installation.

**Long-term savings**

R-TFIX-8M is particularly recommended for energy efficient and passive buildings. Minimisation of the operating costs of buildings is one of the requirements of the contemporary construction industry, focusing on the development of comfortable structures which are economical to maintain and which meet the conditions of environmental friendliness, which is becoming increasingly important. This is why R-TFIX-8M is synonymous with energy efficiency. Its innovative design, with a 5-times-longer thermal barrier between the steel nail and the facade surface, guarantees reduction of point thermal bridges by as much as 50% compared to fixings universally used on the market, to the level of 0.001 W/K for any product length. This causes a spectacular effect, giving Rawlplug’s new fixing the best thermal performance. The low thermal conductivity of the fixing also makes it possible to eliminate the risk of local discolouration occurring in the facade, and thus to minimise potential future financial expenditures needed for its repair.

**Simplicity saves time**

Working time optimisation is a well-known issue encountered in today’s construction projects. Tight schedules require solutions that need to be increasingly ergonomic, and at the same time comply with the most stringent safety and reliability standards. Rawlplug’s products come straight from construction sites: these are the conditions and the requirements from which they originated. This obviously goes for R-TFIX-8M too: it was supposed to respond to the need to provide an effective, versatile and simple to use facade fixing. The problems mentioned above are solved thanks to the original design of the fixing. The shortest anchoring zone of all products of its kind reduces installation time and makes it possible to use shorter drill bits. Cost effectiveness is also improved by using a shorter fixing compared to other, similar products available on the market. Further economisation is guaranteed by the unique design of the anchoring zone, capable of carrying high loads, and thus reducing the number of fixings recommended per square metre. This makes savings noticeable already at the stage of designing and estimating the required number of fixings.

**Two-step installation to achieve reliability**

Easy application is also important in the case of serial fixings: not only does it ultimately reduce installation time, but also makes the work simple and comfortable for the installer. The hammer-in technique used in the case of the R-TFIX-8M, combined with the fact that the nail...
is pre-assembled with a two-piece expansion sleeve, guarantees the shortest installation time of all fixings of this type. The head diameter increased to 15 mm also makes it easier to hammer the nail in centrally, and also contributes to stable installation: as a result, working with the product is more comfortable, and the pre-assembled elements of the fixing make it possible to save installation time. Essentially, installing R-TFIX-8M fixings requires only two steps: inserting the fixing in the hole and hammering it in. You just need to predrill a hole with a diameter of 8 mm and a depth depending on the substrate type. Since the fixing is pre-assembled, you then just have to insert it in the hole and hammer it in.

**Small fixing for big savings**

Environmental friendliness is playing an increasingly important role in the construction industry. The changing environmental conditions force us not only to seek new sources of fuel and heat, but also to modify our immediate surroundings to use resources less extensively. One of the solutions implemented in relation to that is thermal upgrade of existing buildings, including in particular residential ones. The savings obtained as a result of reduction of the amount of heat supplied represent a direct benefit coming from the facade improvements. This is why facade renovation projects combined with thermal insulation improvement account for the majority of the construction investments currently implemented, and represent an extremely important market segment. Rawlplug simply had to react to these needs and has consequently launched a product that meets all the requirements.

Rawlplug’s R-TFIX-8M provides a solution dedicated to the conditions described above. The high strength of the fixing makes it possible to use it in a versatile manner in all kinds of substrates (ABCDE) and with all kinds of thermal insulation, which has been confirmed by ETAs. R-TFIX-8M is also the only product certified for the anchoring of concrete thermal insulation panels with a thickness of 40 mm, in large-panel systems, where the thin substrate usually reduces the possibilities of effi-

**Major use advantages R-TFIX-8M**

- **BEST FOR ANCHORING IN LARGE-PANEL SYSTEMS** – one of the few products certified for the installation of thermal insulation in such buildings, approved for anchoring in C16/20 – C50/60 concrete external wall panels in large-panel systems.
- **MOST EXTENSIVE SPECTRUM OF APPLICATIONS** – ETA certified for all types of substrates (ABCDE) and all kinds of thermal insulation, with confirmed high performance.
- **RECOMMENDED BY LEADING SYSTEM PROVIDERS!** – very high plate stiffness (1.0 kN/mm) stabilises the thermal insulation system of the entire facade.
- **COST EFFECTIVENESS** – the special design of the fixing shortens installation time and makes it possible to use shorter drill bits.

place. The already mentioned larger head diameter and compression zone make it possible to install the fixing correctly with regard to the insulation material. Done! No need to use power tools or installation accessories: this makes Rawlplug’s new fixing one of the simplest facade fixings to install. On top of that, R-TFIX-8M is intended installation in the full range of substrates. The innovative anchoring zone which has already been mentioned makes Rawlplug’s fixing one of the few products of its kind that can be used in external concrete panels in large-panel systems with a thickness as low as 4 cm! This is a unique advantage that makes it possible to significantly reduce investment costs by shortening the time needed to drill holes and by allowing contractors to use the shortest possible fixings. Savings are really just a fixing away!
cient anchoring. It is also important to note that the very high plate stiffness (0.7 kN/mm) prevents facade vibrations caused by wind uplift, which directly contributes to the stabilisation of the external insulation system of the whole facade and makes Rawlplug’s R-TFIX-8M the most desirable solution for system providers.

**Fixing strength comes with strong arguments**

Rawlplug’s products are more than just fixings: they result from our efforts to make sure that the day-to-day work of construction industry experts is as efficient as possible, and at the same time fully trustworthy and reliable. Rawlplug’s offering is not only about the products: it is a complex package that includes additional benefits, from technical advisory, through specialised training, to comprehensive documentation and original design calculation tools. We think holistically, providing support for every element of construction investments. When you choose Rawlplug’s new R-TFIX-8M facade fixing, you choose more than just a perfect fixing – you choose the strength and reliability it stands for.