



Construction
Products Group
Europe

Modular Construction

—
BONDING, SEALING & FIRE
PROTECTION SOLUTIONS

 **illbruck**

Flowcrete

Nullifire

TREMCO

Vandex

dryvit 

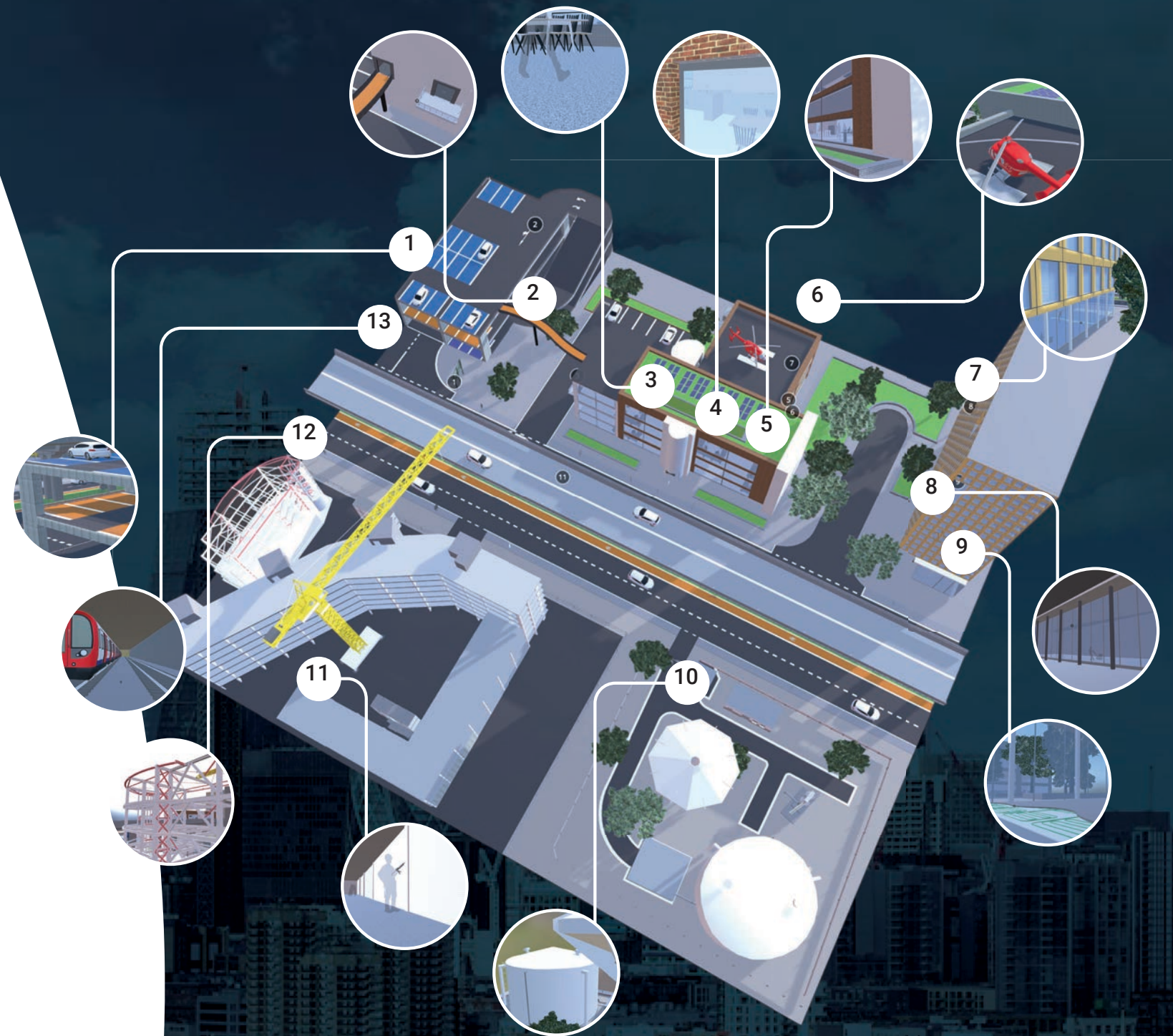
A FAMILY OF BRANDS UNDER ONE ROOF

CPG Europe manufactures high performance building materials in order to solve the complex challenges faced by today's construction industry. With over 1,400 employees across Europe, we are committed to shaping a world where buildings and structures save energy, last longer and exceed sustainability benchmarks.

From joint sealing, bonding and insulation through to passive fire protection, flooring, waterproofing and roofing solutions – the product brands housed within CPG Europe cover a wide array of different construction needs. Combined with the wealth of expertise, services and support we provide a truly unique offer – to make our customers more successful time after time.

CPG Europe is part of RPM International Inc. – one of the world's leading construction products companies for both the industrial and consumer segments.

Europe's leading construction products brands...



- | | | |
|--|-----------------------------------|----------------------------|
| 1 Car Parking Structures | 6 Roofing Systems | 11 Fire Stopping |
| 2 Balconies, Podia & Terraces | 7 Façade Construction | 12 Intumescent Coatings |
| 3 Seamless Resin Flooring | 8 Structural & Inplant Glazing | 13 Basements & Foundations |
| 4 Window Installation | 9 Subfloor Preparation | |
| 5 Exterior Insulation & Finishing Systems (EIFS) | 10 Potable & Waste Water Industry | |

HIGH QUALITY SOLUTIONS

FOR MODULAR CONSTRUCTION

In cities, small spaces between buildings and plots close to busy roads, railway lines and airports are increasingly being built on. The desire for a rapid return on investments is becoming an important factor. However, often there isn't much room on existing sites for an extensive construction site infrastructure such as construction containers, material storage.

These are some of the factors driving a shift towards modular construction. This trend is emerging in residential construction, residential buildings, public-sector buildings such as schools, universities, kindergartens, hospitals and commercial properties. Modular construction shifts a large part of the work from the construction site to the production plant. The efficiency of the overall manufacturing and construction process has a major impact on the time and space needed onsite.

INTERNAL WALLS
PAGE 08

FLOORING
PAGE 08 | PAGE 16

EXTERNAL WALLS
PAGE 10 | PAGE 17

PREFABRICATED BUILDING UNITS
PAGE 11



WHY USE CPG?



Reliability

Reliability through strong product brands.



Efficiency

Efficient systems for industrial and onsite applications.



Single Touch Point

Single touch point for our 6 brands covering a wide array of application areas.



Technical Support

Technical and sales advice for every situation across Europe.



Training & Workshops

Pioneering Training Courses & Seminars.



Local Manufacturing & Supply

23 European locations for quick access to our products.

PASSIVE
FIRE PROTECTION
PAGE 11 | PAGE 19

BATHROOM
& KITCHEN UNITS
PAGE 11

BALCONIES, PODIA,
TERRACES & ROOFS
PAGE 17

MODULE JOINTS
PAGE 18

GROUND REACHING
SURFACES
PAGE 18

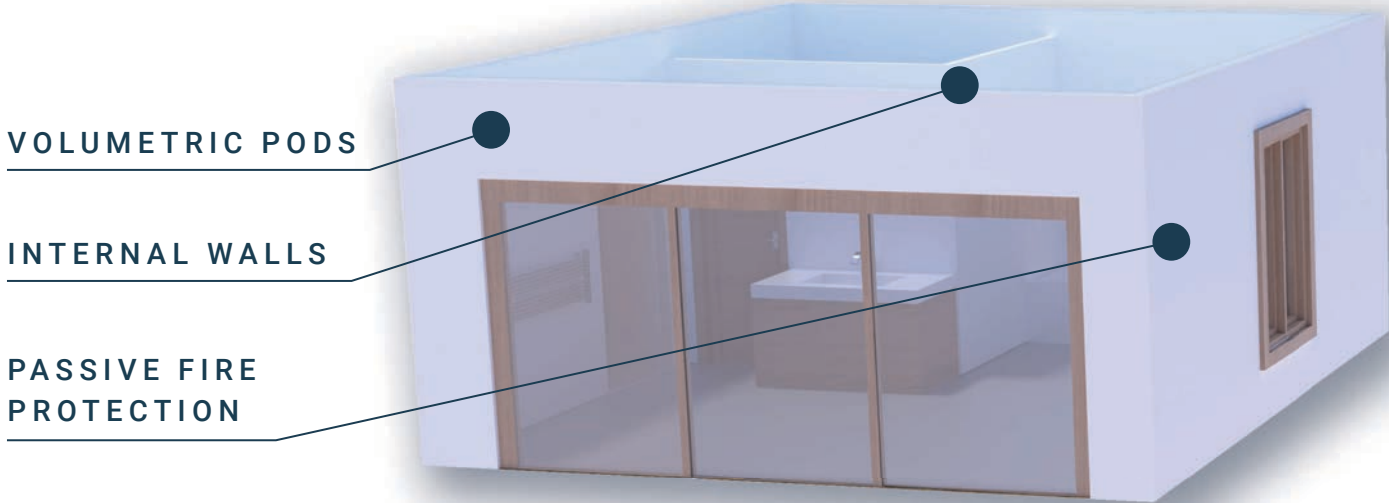
OFF-SITE CONSTRUCTION

INDUSTRIAL PREFABRICATION

The different segments in prefabrication processes must all be coordinated. This can often be very time consuming as there may be many different suppliers and contact partners involved or you may have to align individual solutions from different trades.

The efficiency of the entire manufacturing work flow - from planning and ordering, through logistics, off-site production and on-site implementation to handing over the keys - is important in keeping the project in schedule.

At CPG, we start working with you at the planning stage. This means that we can use our technical know-how to help you find the right system solutions or work with you to develop made-to-measure solutions for your projects.



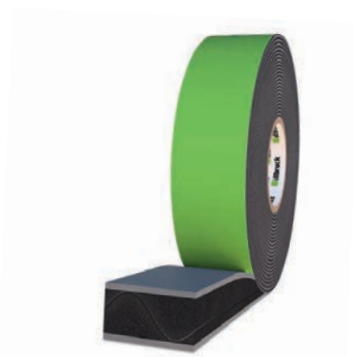
INTERNAL WALLS



Our adhesives, sealants and passive fire protection products offer a range of solutions to the different areas of internal wall construction. They meet the requirements of e.g. acoustic, thermal and mechanical standards. The health of your employees as well as the residents and users of the final building is an important factor in our product development. Our products are low VOC and certified, for example, in accordance with EC1+.

Window sealing is an important detail in internal wall construction. The national Energy regulations requires an airtight building envelope. This includes a continuous air-tight window sealing. At the same time, client requirements as break-in protection and sound insulation have to be taken into consideration. The illbruck i3 PowerPackages offers system solutions for burglary resistance up to level RC3 (EN 1627-1630) and sound insulation. The i3 system has

proven itself on the market for more than 20 years and an additional 10-year warranty.



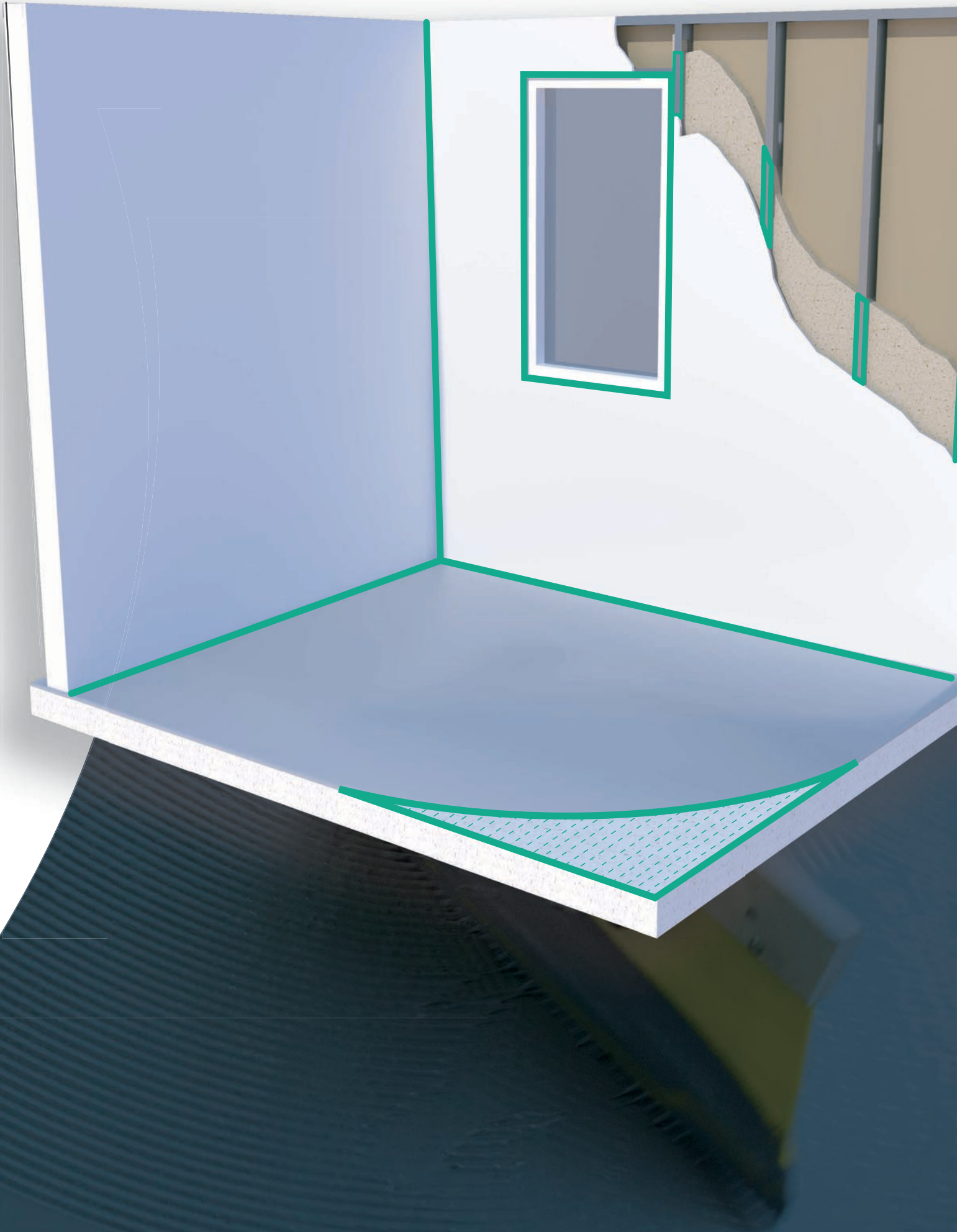
FLOORING

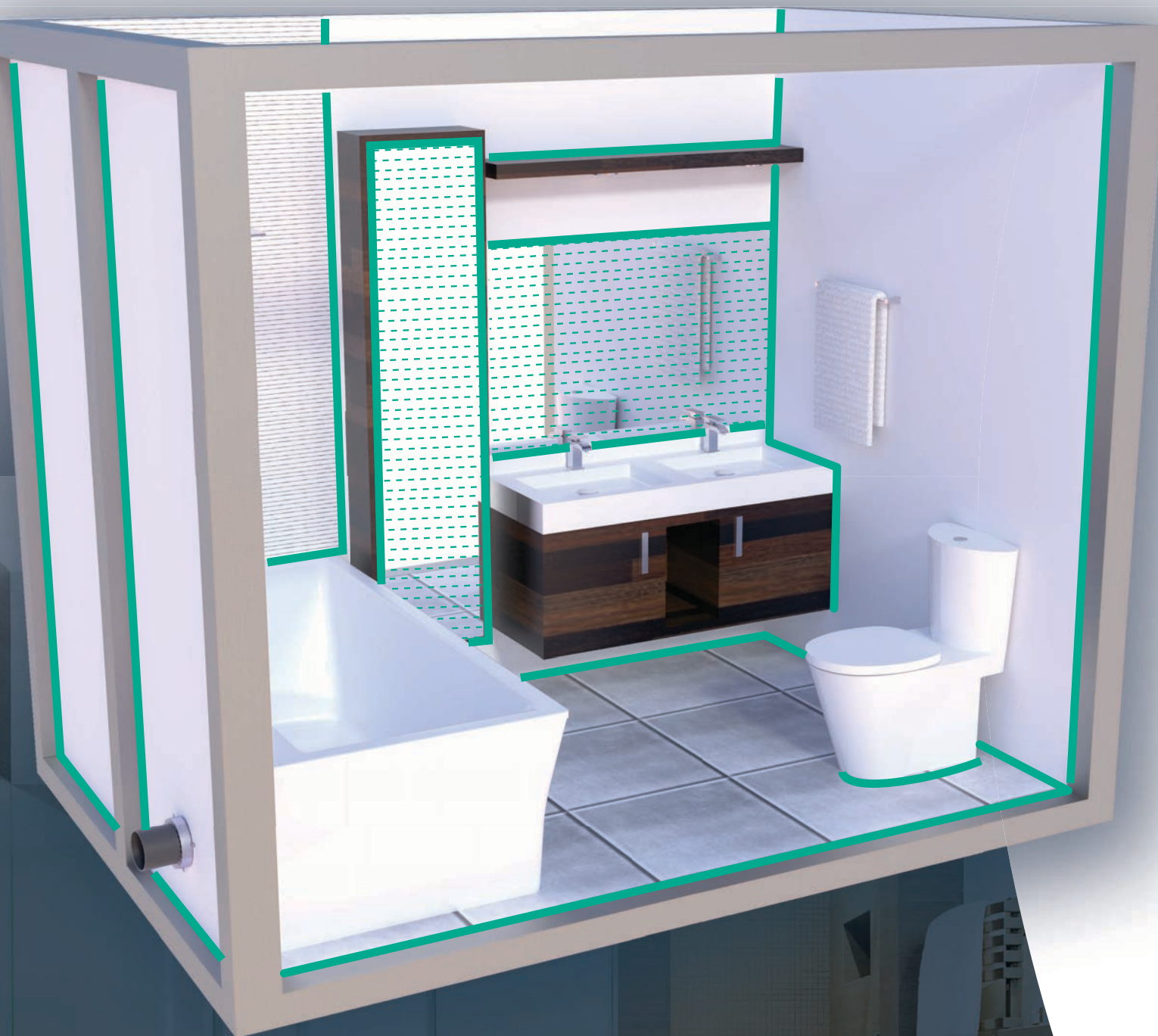


We offer a selection of product solutions for prefabricated flooring - these range from fast-acting adhesives to long-lasting seamless flooring.

Tremco's flexible bonding systems reduce construction times by eliminating or reducing the need for mechanical fixing. The results are impressive: Improved acoustic and thermal performance and perfectly smooth, permanently bonded flooring.

making them the perfect solutions for any situation, regardless of the scope, size or type of use.





BATHROOM & KITCHEN UNITS

Nullifire **illbruck**

To build the bathroom and kitchen units, you need compatible product systems for e.g. bonding the drywall construction, sealing expansion joints, sanitary installations and fire stopping.

Our product systems for these applications are particularly beneficial for industrial prefabrication. They accelerate production speed and subsequently maximize production output. The product systems include innovative hybrid adhesives for bonding drywall panels and enhance acoustic insulation by reducing the transmission of sound. For attaching mirrors and sealing sanitary facilities, the illbruck brand offers sealants in a wide range of colours.

The Nullifire range of certified fire stopping products provide fire protection for service penetrations in walls.



PASSIVE FIRE PROTECTION

Nullifire

Fire protection must have a high priority in modular construction. In the CPG portfolio, the Nullifire product range has all you need for passive fire protection solutions for the unit production.

The Nullifire portfolio, includes intumescent coatings for structural steel with national and international certification standards. The range includes fast track, single coat systems that have an impressive fire resistance of 120 minutes.

Also our Fire Stopping solutions range have also all necessary national and international certifications. When correctly installed into the building structure, they close joints, seal gaps and compartmentalise the fire rated areas the building. They provide provide up to 240 minutes of fire resistance for the compartments.

For the prefabrication of modular elements, we offer smart fire protection solutions for the service penetrations and electrical installations.



EXTERNAL WALLS



There is a number of requirements for the façade itself and the joints within the façade. They must be resistant to driving rain and UV exposure but also be open for vapour diffusion. illbruck's portfolio includes many robust sealing systems: These include membranes for ventilated façades, pre-compressed sealing tapes, adhesives and sealants, all of which meet the requisite technical requirements and align with the building's architecture.

Additionally, fire resistance has become a key topic in façade planning. In reference to fire resistance, the illbruck portfolio includes an all-round, independently certified membrane system that meets class B-s1, d0 as per EN 13501-1.

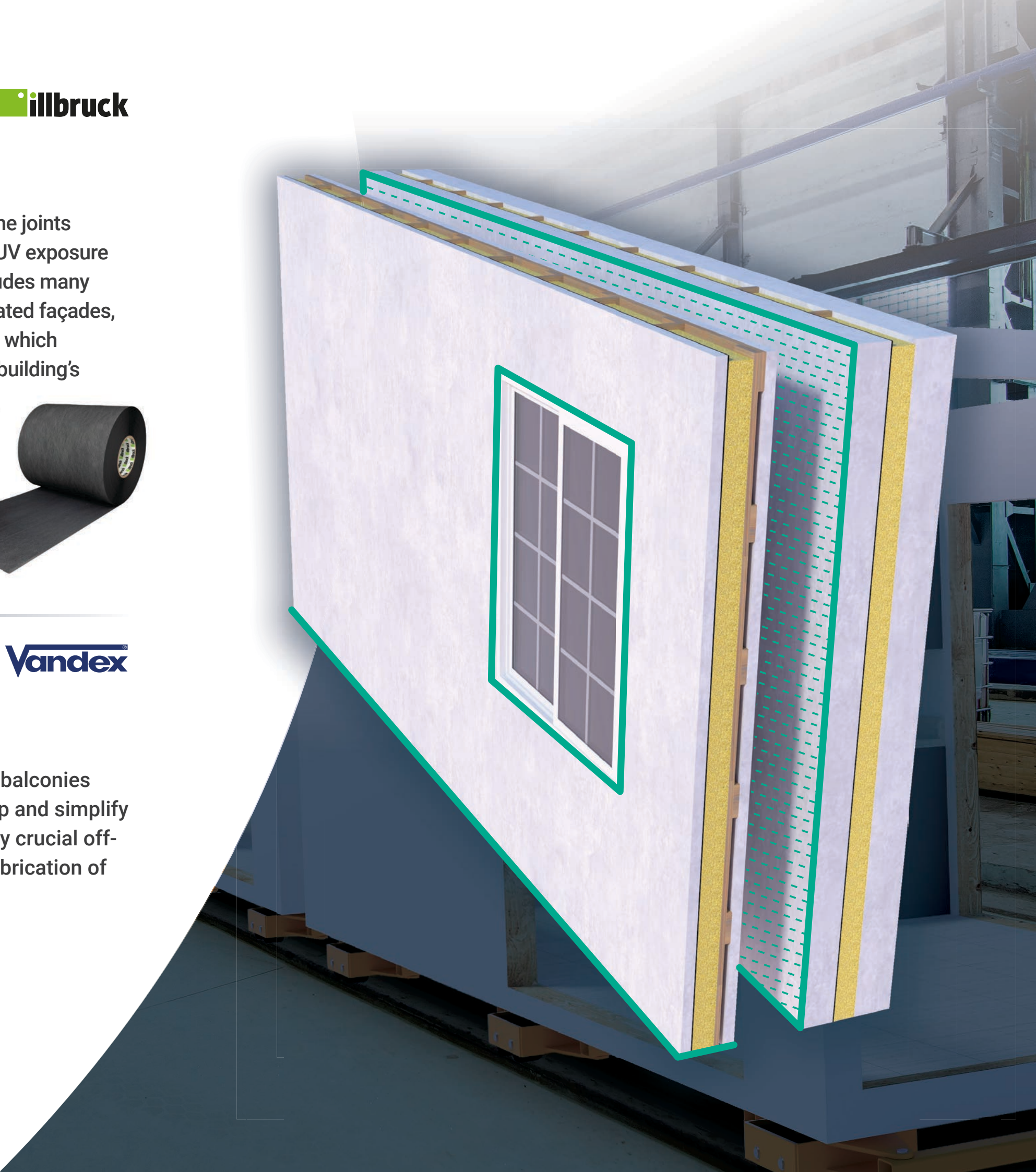


PREFABRICATED BUILDING UNITS



In addition to modules, other parts of the building such as balconies and patios are increasingly being prefabricated to speed up and simplify the operation on the construction site. To ensure this, many crucial off-site production processes are required for the industrial fabrication of these elements.

When it comes to waterproofing prefabricated elements, CPG's Vandex brand offers concrete protection systems and liquid membranes that protect the finished elements. Furthermore, our Tremco brand offers liquid applicable sealant systems that provide prefabricated elements such as balconies and patios a waterproof coating – reliable, long-lasting solutions that are also easy to apply.



ON-SITE CONSTRUCTION

After the modules have been completed on the production line, the final steps must be carried out on site. To ensure this work can be carried out as efficiently as the prefabrication process, CPG offers a one-stop portfolio of solutions for flooring, façades, sealing of modules and fire protection.

On site, we continue to provide the same level of support that we do off site. This includes advising the engineers and providing technical support to ensure that all sealing, coating and fire protection applications are carried out correctly and you get an efficient, high-quality result.

BALCONIES, PODIA
& TERRACES

EXTERNAL WALLS

FLOORING

MODULE JOINTS

PASSIVE FIRE
PROTECTION

ROOF
CONSTRUCTION

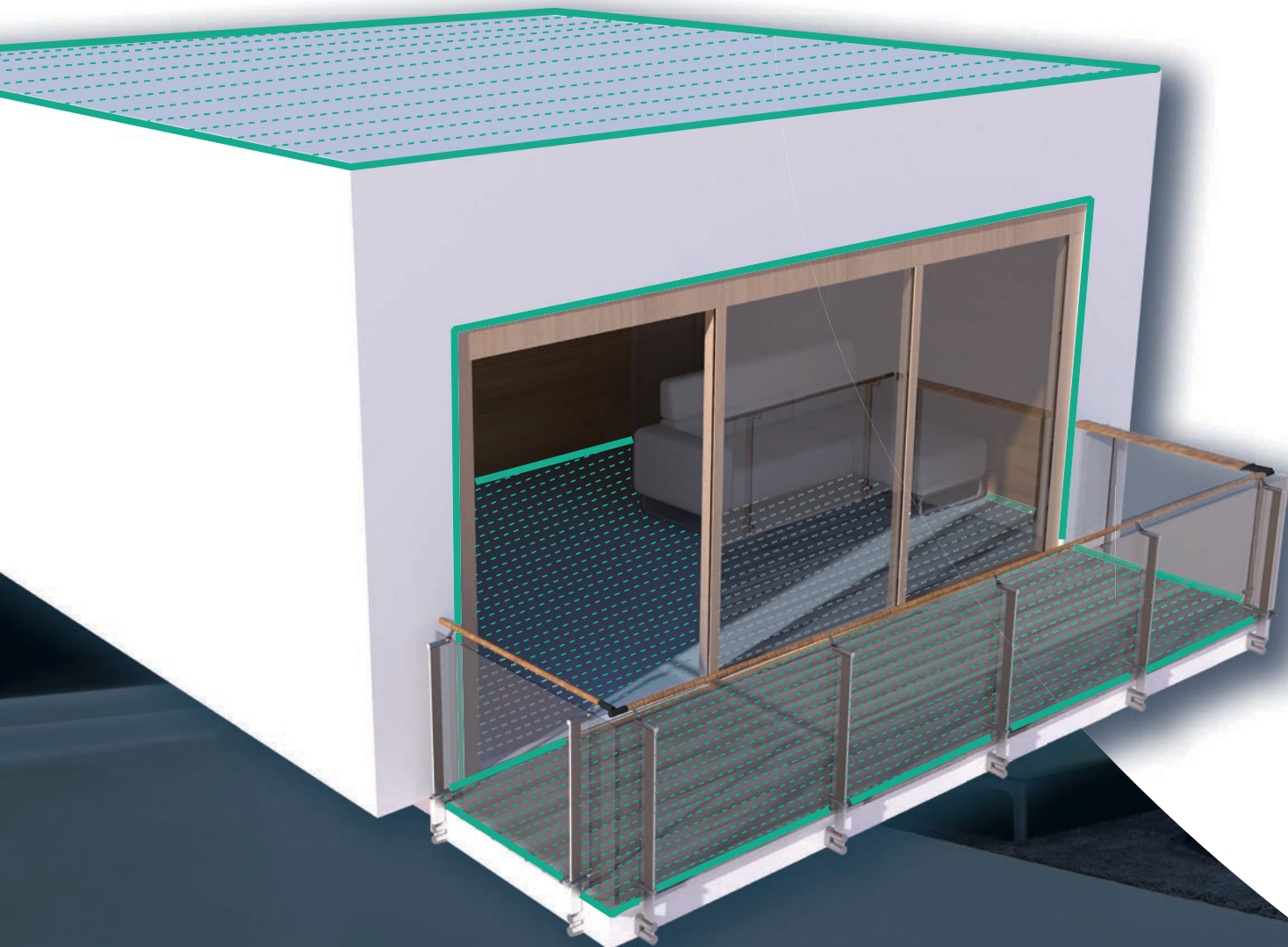
FLOORING



The seamless resin floor systems from Flowcrete are the perfect fit for areas subject to heavy footfall. This also applies to modular construction of commercial buildings such as airports, car parks, shopping malls, hospitals, public institutions and industrial plants.

We proudly recommend Flowfresh PU floorings, the fast cure Flowfast MMA acrylic flooring and the decorative, seamless Mondéco Terrazzo range. The products in this diverse product range can be applied fast, they have outstanding properties and come in a wide range of colours and aesthetic choices.

We also offer flooring systems approved in line with international standards and regulations for areas subject to strict hygiene requirements such as pharmacies, healthcare, clean rooms.



BALCONIES, TERRACES & ROOFS



Efficiency is the key when balcony units, terraces and roofs are finished on the construction site. Balconies must be coated to prevent water penetrating the structure of the building. Roofs and their joints must be weatherproof, watertight and UV-resistant. They must also allow water to drain off, they must be able to absorb movement and the joints must be seamless and crack-resistant.

The CPG-s Tremco range of waterproofing membranes comprises a complete set of liquid and sheet applied systems that combine the benefits of rapid installation with the long term performance demanded by modern construction. Our range includes both PU systems and solutions that use the latest MMA resins.



EXTERNAL WALLS



For modular buildings that require EWI (ETICS) systems, CPG's Dryvit offers solutions that deliver outstanding energy efficiency and plenty of aesthetical design options.

These special façade systems are available in a wide range of finishes including granite, limestone, wood and stone. We also offer a broad selection of prefabricated features, making Dryvit systems a long-lasting alternative at a fraction of the cost.



MODULE JOINTS



The joints between the individual modules of a building - also known as expansion joints - ensure building's durability by allowing the movement and therefore they protect it from any possible damage. They must be installed correctly using suitable sealing solutions; prevent thermal bridges and absorb any movement. Additionally, the different phases of the construction has to be taken into consideration when choosing materials, as the joints may be temporarily exposed to weathering.

The CPG brands Tremco and illbruck offer a range of solutions including pre-compressed impregnated sealing tapes for vertical and horizontal joints as well as solutions for prefabricated roofs and roof connections between modules.



GROUND REACHING SURFACES



Protecting the ground reaching surfaces require special performance for air-tightness, safety, durability and reliability. Any building needs a long-term protection against the contact with soil. Barriers and base seals against rising damp and ingress of water are essential. Furthermore, providing air- and gas-tightness is a fundamental requirement. Our range for protecting ground reaching surfaces will deliver you all these features.

CPG offers a range of flexible waterproofing systems and airtightness solutions. These include e.g Vandex BB 75 Elasticised Waterproofing Slurry and OS 5 Highly elasticised surface protection coating. Jointing products such as Expaseal and Flextape.

Our illbruck bituminous, flexible joint seal and EPDM membranes broaden the choice even further. All systems have been designed for easy on-site application and they can be applied by spraying, brushing or with a roll.



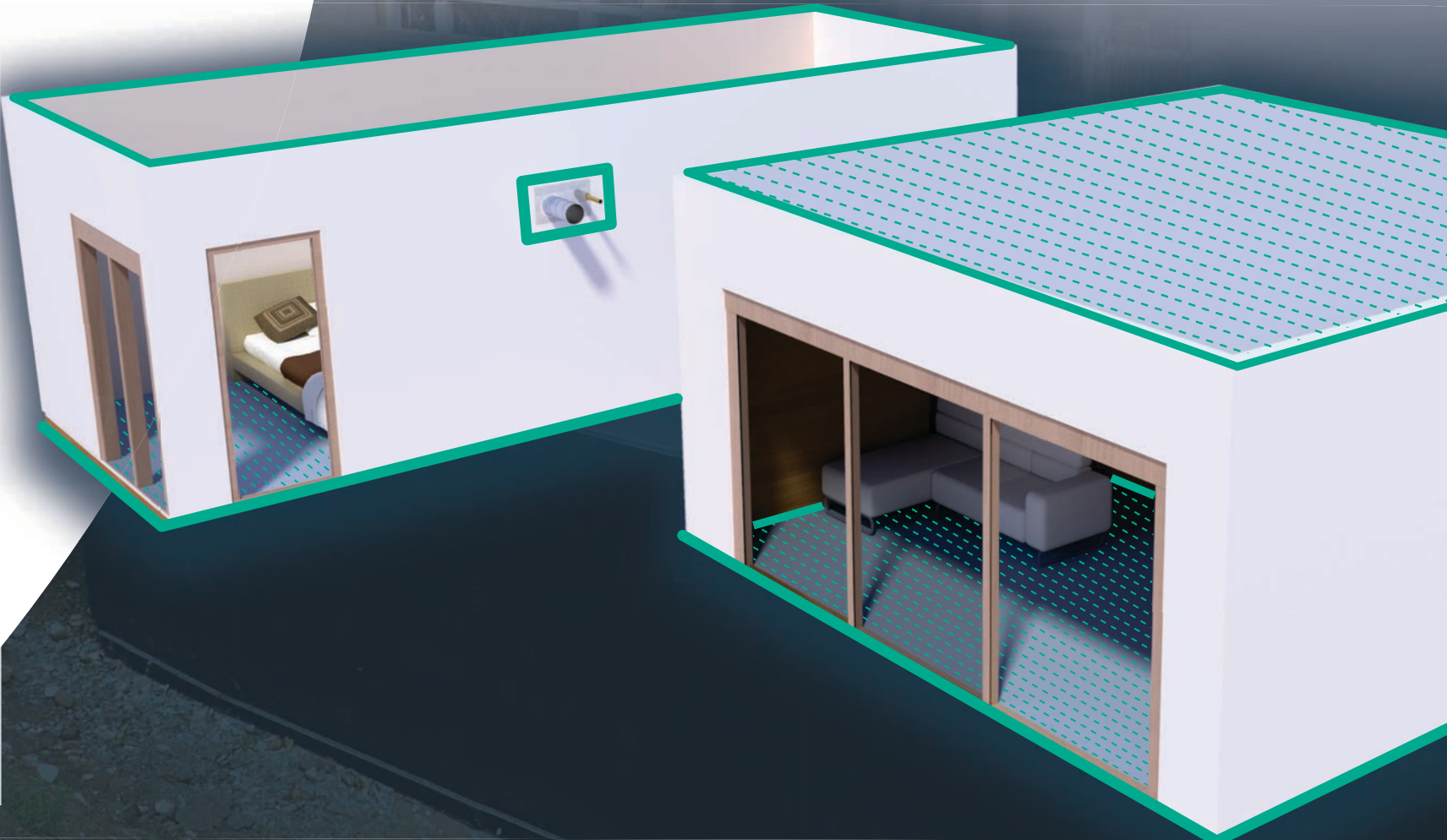
PASSIVE FIRE PROTECTION



Protecting people from building fire is the number one priority. Thus fire and smoke must be prevented from spreading through the building, in a case of building fire. Fire stopping practice divides building into areas of manageable risks - compartments. This is achieved by sealing the compartment gaps, joints and openings and they have to resist the fire for a defined period of time. You can trust us with this complex area, with our decades of experience and a complete range of compliant products and systems.

The Nullifire brand offers nationally and internationally tested and approved fire stopping solutions. These include fire-rated foams, intumescent joint and gap fillers, cavity barriers, acrylic and silicone sealants for linear joints. The range also includes fire stopping products for pipe and cable penetrations,

which reinstate the compartmentalisation of walls or ceilings when penetrated by building services. From the Nullifire range you can also find fire stopping products which are specially designed to accommodate a specific degree of movement.



trusted brands

COLLABORATING FOR SUCCESS

Tremco CPG UK Ltd
Coupland Road, Hindley Green
Wigan WN2 4HT UK

www.cpg-europe.com
+44 (0) 1942 251400
sales.uk@cpg-europe.com

