

PREFAB  
MODULAR  
OFFSITE



IMPROVE  
CONSTRUCTION  
QUALITY, EFFICIENCY  
AND SAFETY ON YOUR  
PROJECTS WITH ARDEX!

## A NEW WAY OF BUILDING

Thank you for your interest in the ARDEX PreFab system solutions! ARDEX has over 70 years of experience as a leading global system-solution and service provider of innovative building systems. This has helped us to gain experience with many different types of PreFab manufacturers worldwide over the past years.

Many industries have been and continue to be disrupted by an increasing speed of change. The construction industry, however, has historically been very reluctant to change. Now, enabled by digital technology and driven by global skill shortages as well as governmental support, PreFab is transforming the construction industry. As an alternative to conventional construction, offsite manufacturing ensures quicker, safer and more sustainable and more efficient construction.



# THE ARDEX GROUP

Recognised by installation experts, the ARDEX Group delivers industry-leading innovation and time tested consistent solutions to the most complex installations and building systems. Built on a foundation of product performance and a global focus on training, the ARDEX Group leads through local customer interaction striving for excellence in customer experience.

Our innovation focus also applies to PreFab, where innovation has been a key influencer to our continued success, with technologies introduced many years ago still unique in their respective industries today. Offering customary high quality – featuring exclusive ARDEX innovations such as MICROTEC and ARDURAPID technology – and all-round support, all ARDEX system products are easy to use and perfectly compatible for premium performance and peace of mind.



## WHAT IS MICROTEC TECHNOLOGY?

A unique binding matrix made up of exclusive ARDEX materials, special cements and polymers combined with high performance fibres which improves adhesive strength, reduces the effect of shear strain and stress on the tiling system.



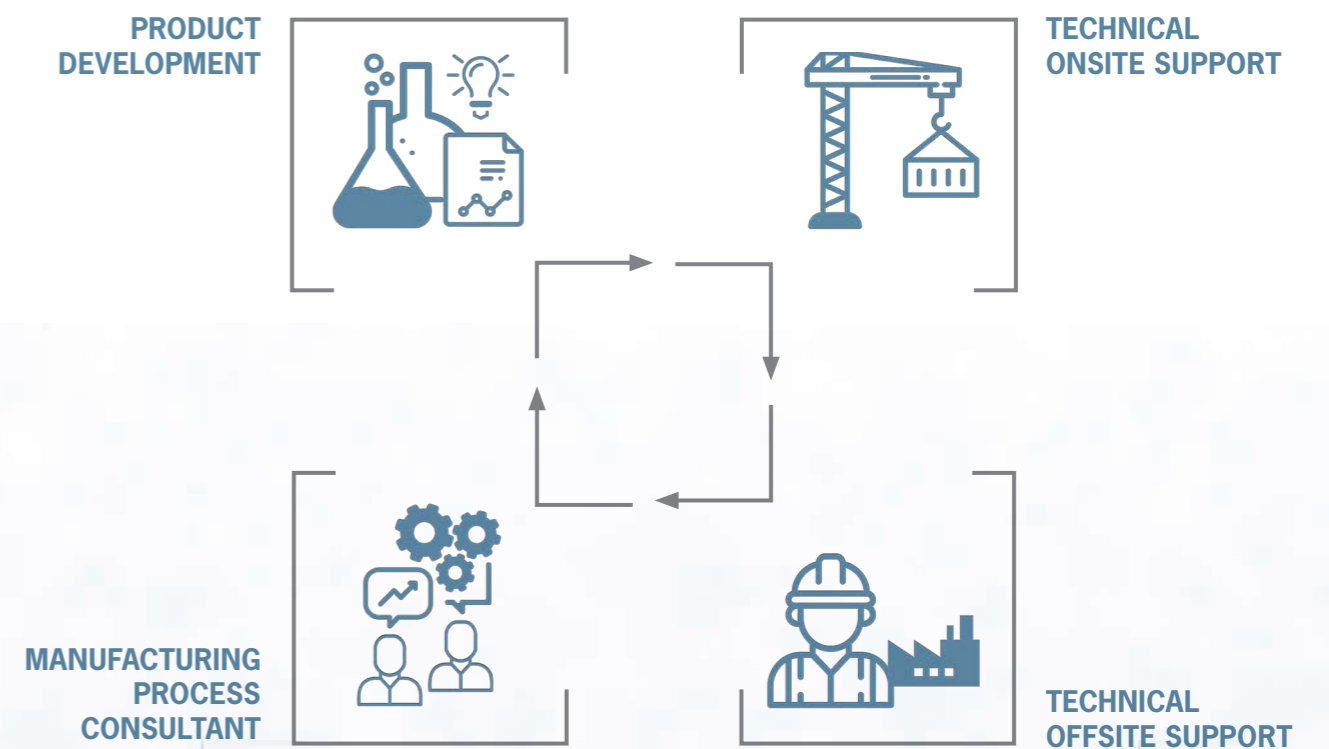
## WHAT IS ARDURAPID?

'RAPIDRY FORMULA' Technology or ARDURAPID technology binds the water used for mixing within the cement. Therefore, the mix water is utilized chemically to build a reinforced structure. This technology ensures rapid drying and strength development, regardless of thickness, guaranteeing a shrinkage free high strength system and virtually eliminating the risk of water staining.

# YOUR PREFAB INDUSTRY PARTNER

ARDEX views the PreFab industry as a uniquely individual sector that requires specialized products to achieve the best possible efficiency. At the ARDEX Group we pride ourselves in our innovation focus. This also applies to PreFab, where we aim to develop solutions suitable to your specific needs and tailored to your manufacturing process. In addition, the ARDEX approach includes field support, technical training, education and testing. Through our dedicated technical service teams, you will have access to a wide array of expertise to support your operations.

Therefore, we are able to supply a full solution for both intelligent and trusted system solutions and services in support of making your processes as efficient as possible. As an innovation leader in our industry, we welcome the opportunity to also develop customized solutions for your particular needs – completing our service offering to be your partner for the PreFab industry.

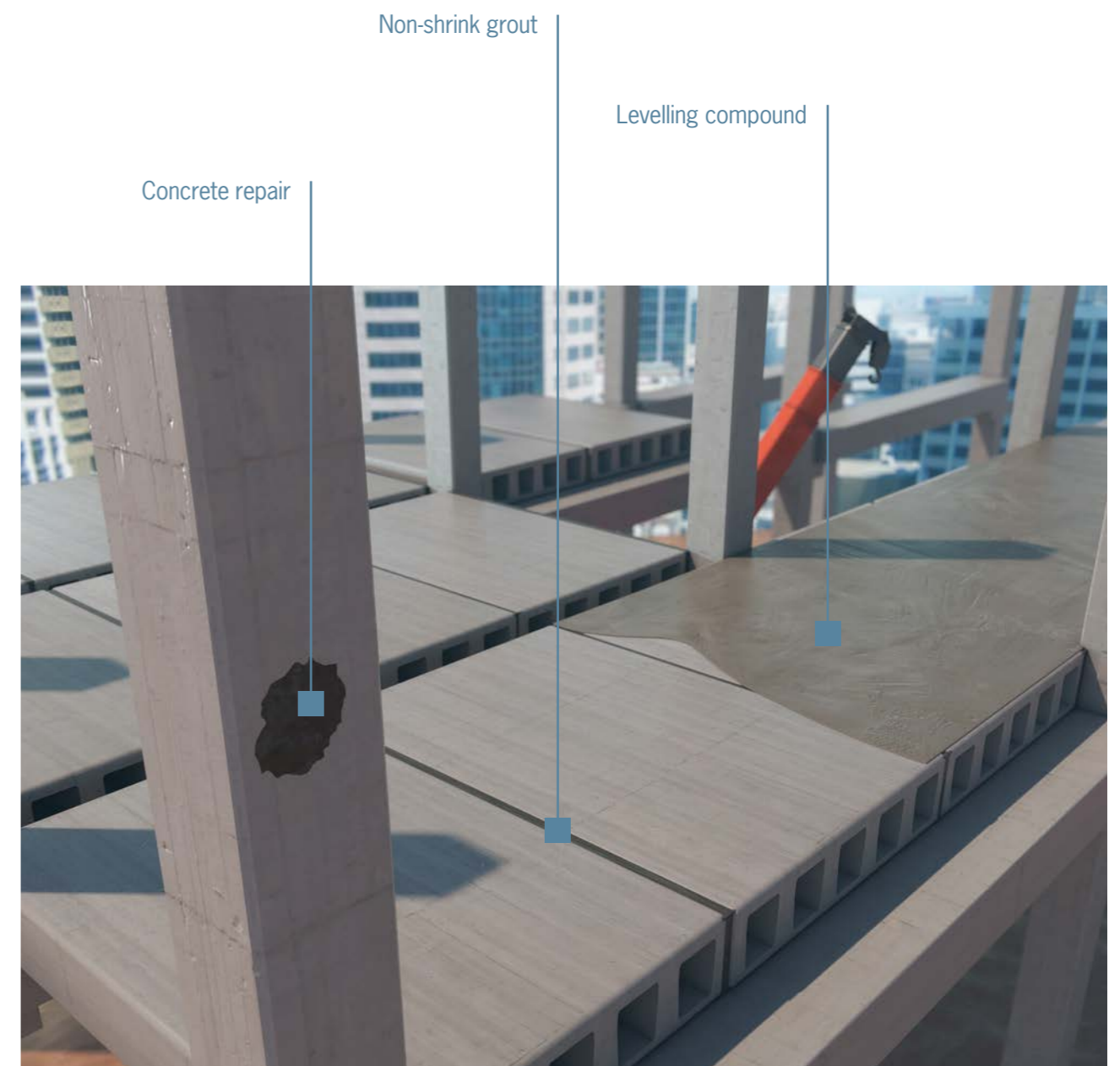




# PRECAST

Precast elements have become an important part of the building structure. ARDEX PreFab system solutions for the precast market offer means and methods to flatten and level precast surfaces with high quality coupled with time and labor savings.

Understanding the importance of the structural integrity of large precast elements, we provide the technology to repair concrete structures and edges. Completing our system offering for precast solutions, our product range also includes curing compounds, non-shrink grouts and bonding agents.



ARDEX solutions for precast elements

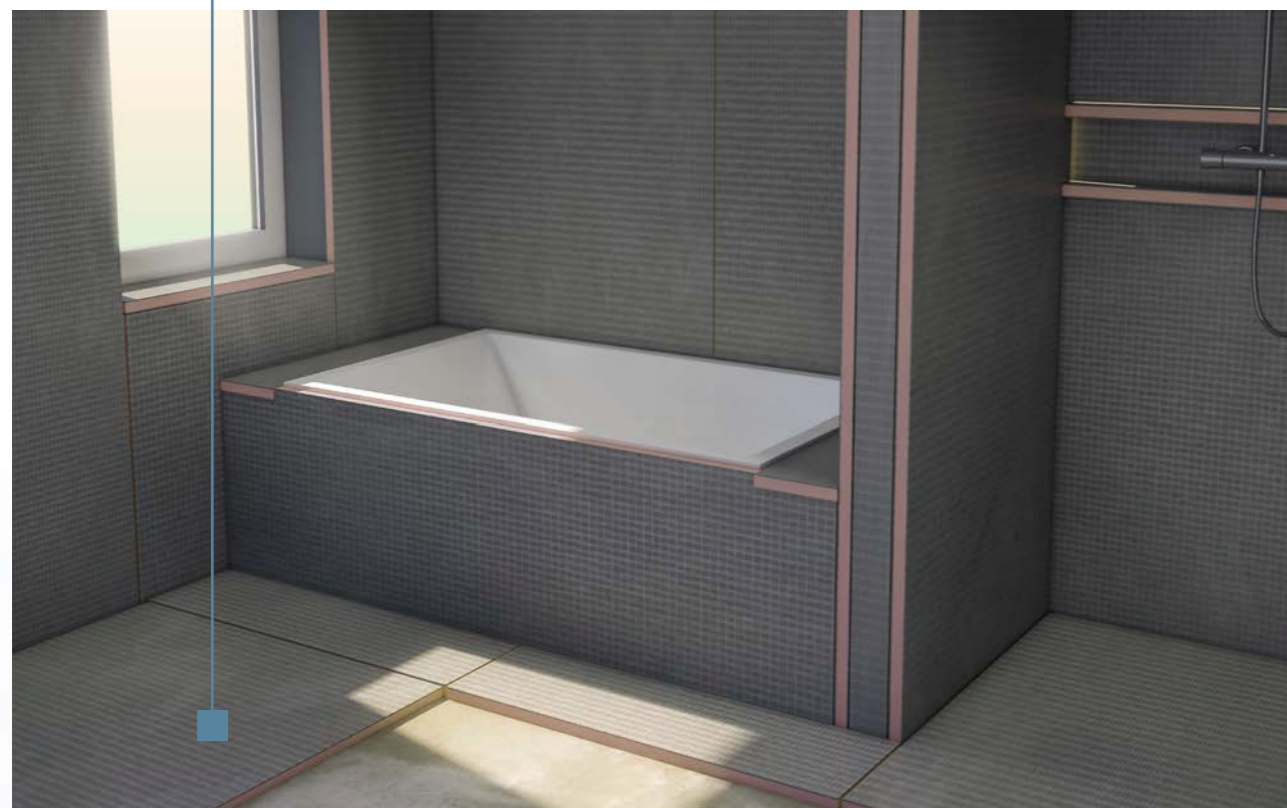
# ELEMENTS

PreFabrication “elements” can cover a variety of segments. For the three most common we have outlined our range of solutions:

## SURFACE CONSTRUCTION BOARDS

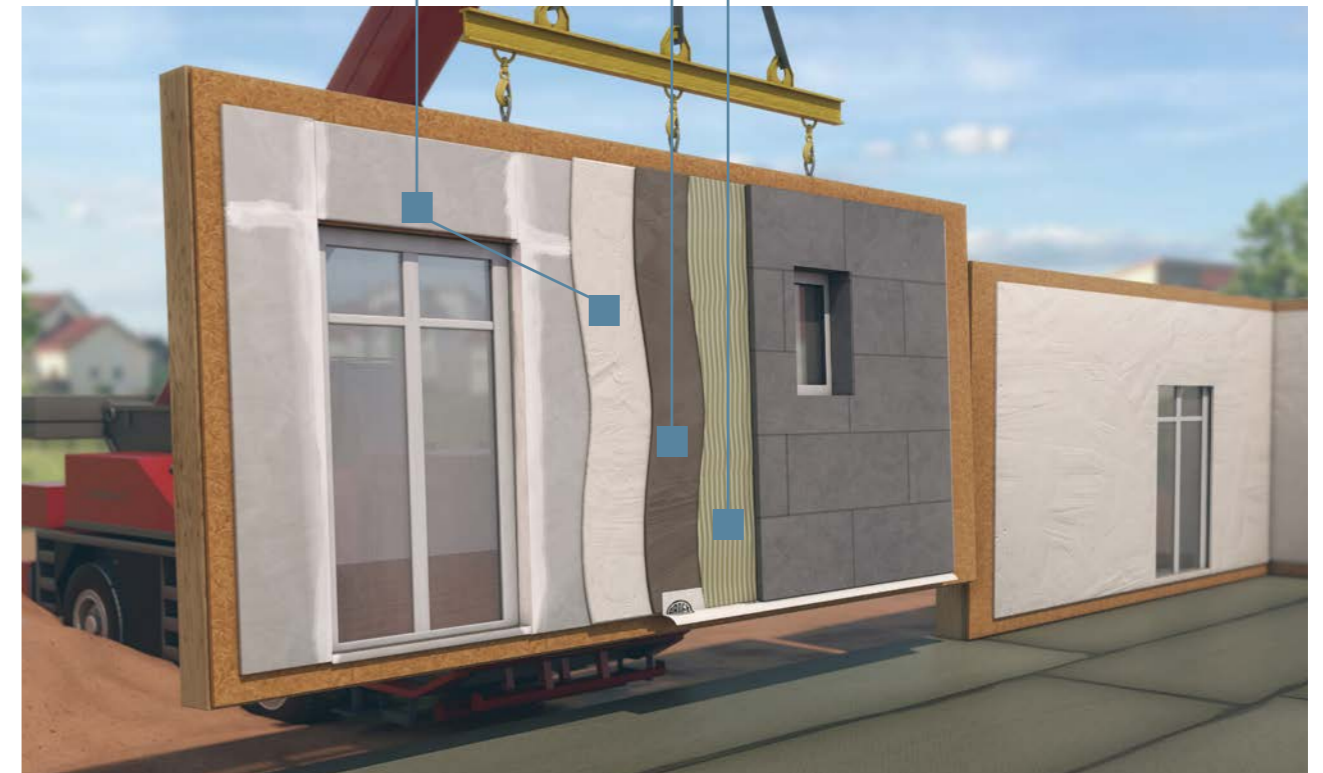
When incorporating construction boards into wet areas such as bathrooms, it is critical that these boards can be worked with easily on the construction site during the finishing process. For this application, ARDEX can supply various types of coatings for different types of boards, including a range of mortars that can be applied on-site to receive tiles or other floor and wall coverings.

Coatings



ARDEX solutions for preparing wet room construction boards

Filling and smoothing  
Waterproofing system  
Tile adhesive and grout, sealants



ARDEX solutions for floor panels or wall elements

## PREFABRICATED FLOOR ELEMENTS

ARDEX has developed cutting-edge technology in the area of floor patches, screeds, levelers and adhesives. Both ARDEX patching and self-leveling compounds provide a smooth and level basis for the floor covering. Whether the adhesive is rolled, poured or trowel-applied, ARDEX can supply or develop the appropriate product and integrated system.

## PREFABRICATED WALL ELEMENTS

With varying degrees of finishing works done offsite - from wall plasters and renders to tiles - ARDEX can be the partner of choice for the wall finishing process. These products can be efficiently applied by roller, trowel or spray, which can save you time and labor.

## FAMILY HOME

Cologne, Germany

- Timber frame construction, semi-finished walls

### USED PRODUCTS:

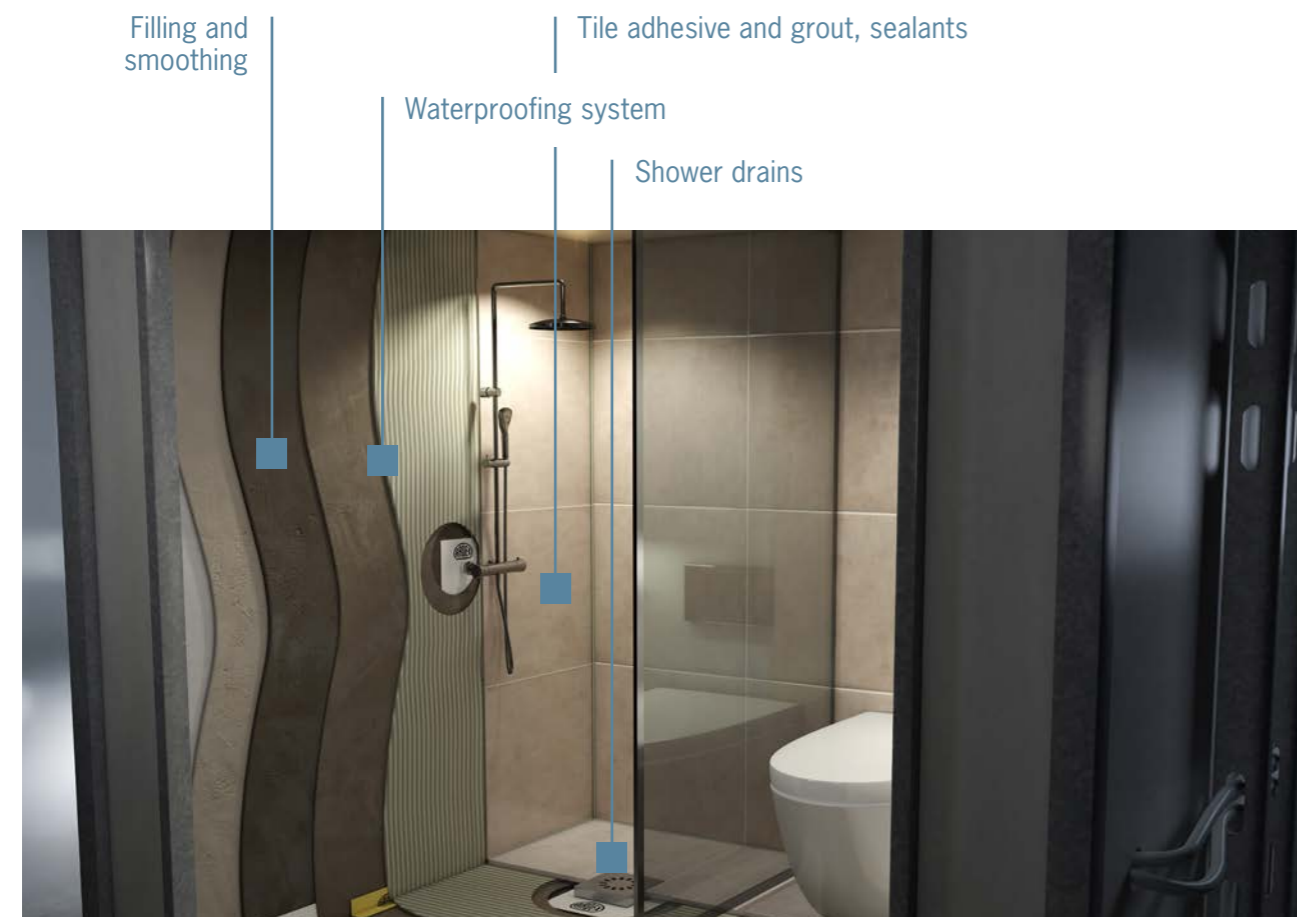
- Tile adhesive
- Grout and waterproofing system for bathrooms



# PREFABRICATED BATHROOM UNITS/PODS (PBU)

Oftentimes, the tiling process creates bottlenecks in the production of prefabricated bathroom units. ARDEX tile system solutions offer improvements in the speed and quality of your installation. To satisfy both the installer and the end user, our solutions can help to overcome the key issues when installing tiles such as long drying time and damages from transportation vibration.

The various brands of the ARDEX Group enable us to draw from a global pool of resources and respond to the needs of individual customer segments and geographical markets. With the ARDEX complete system approach, we can offer the full flooring installation system, making your manufacturing quicker, easier to apply and reliable. This system ranges from waterproofing to tile adhesives, grouts and sealants – offering a singlesource opportunity for flooring installation systems, all included in the ARDEX system guarantee. Edge profiles, electric underfloor heating or innovative shower drainage systems for floor-level showers can also be flexibly combined with a wide range of system components.



ARDEX solutions for PBU construction

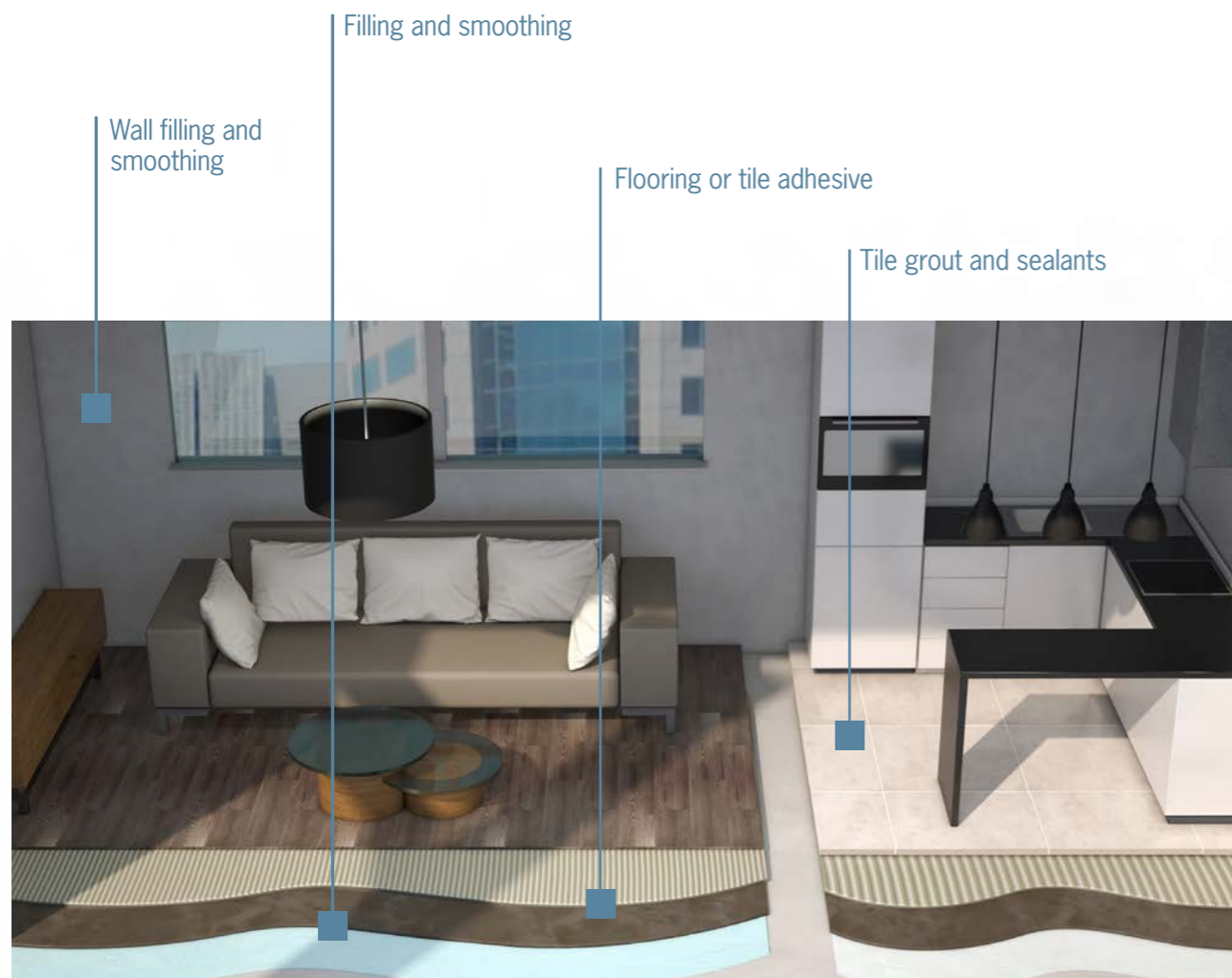
The system is suitable for timber-/wood-, steel- and GRP-framed modules as well as concrete. With the support and expertise of ARDEX technical field personnel, we can support your tile system installations either during the production process or later on site. With an international network of ARDEX companies around the globe, we can also assist with the on-site installation of the modules regardless of where they are installed.



# PREFABRICATED PREFINISHED VOLUMETRIC CONSTRUCTION (PPVC)

PPVC construction can be very complex depending on the design variation and the customer's preference. Over the years, the ARDEX Group has developed expertise for practically all flooring and wall installation systems ranging from subfloor preparation material to adhesives. These full system solutions ensures both premium quality and products with a long-standing track record of global performance.

Similar to PBUs, through its network of international subsidiaries and our global footprint, ARDEX can offer to support both the onsite installation and the production processes. Depending on your particular production process, ARDEX can collaborate with you to develop a finished product to fulfill the requirements of your customer for years to come.



ARDEX solutions for PPVC construction



## SENJA POLYCLINIC

Singapore

- PPVC steel structure moduls for Senja Care Home (SJCH), which is expected to open by the end of 2020, will offer 350 beds. The home will also be co-located with a polyclinic in a 12-storey Integrated Healthcare Facility.
- 2000m<sup>2</sup>
- Practical Completion in 2020

### USED PRODUCTS:

- Filling and smoothing





MORE THAN JUST ANOTHER MATERIAL SUPPLIER, ARDEX LEGACY OF INNOVATION, INVENTION AND KNOW-HOW WILL PARTNER WITH YOUR PRODUCTION TEAM TO ENHANCE QUALITY, IMPROVE EFFICIENCY, PRODUCTIVITY AND PROFITS.

# GLOBAL CONTACTS

