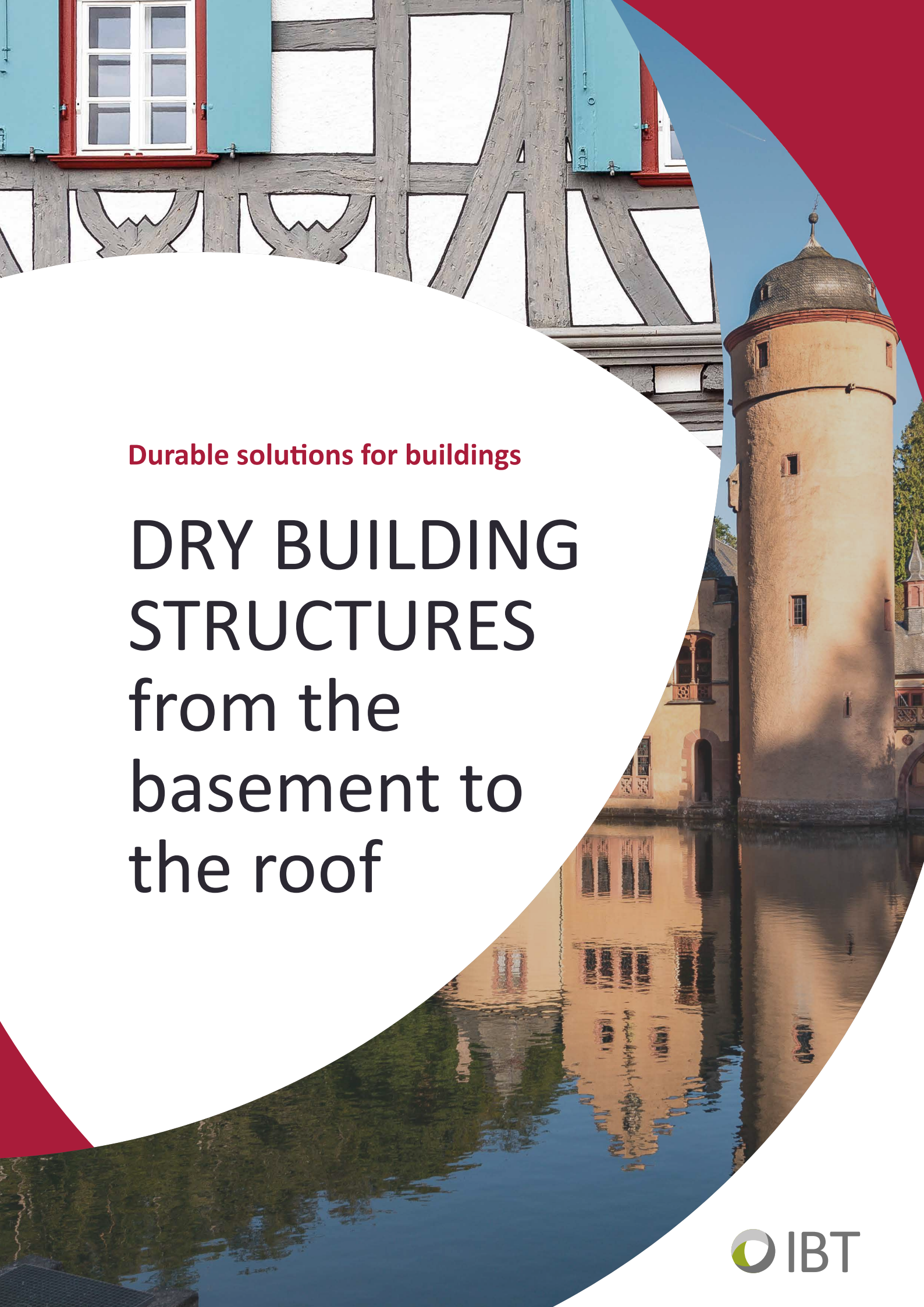


Durable solutions for buildings

DRY BUILDING STRUCTURES from the basement to the roof

IBT

OLD BUILDING, NEW BUILDING, LISTED BUILDING

Our renders provide lasting protection against (flood) water damage and moisture in the walls. Easy to use, reliable in their effect.

Healthy building structures

Healthy living, for more enjoyment of life, also preserved for future generations thanks to high energy efficiency.

Because a house is more than just a building.

ORGANIC AND HEALTHY

Special IBT technology creates a unique pore system during mixing, which draws the wall dry through the physical process of capillary action.

The salts already present in the wall crystallise once inside the wall and no longer cause any new damage. If new moisture ingress occurs, the fine mineral particles carried in the water contribute to the natural narrowing of these ascent paths through sintering.

A permanent, natural barrier is created and renewed moisture penetration is prevented. The function of the pore system and capillarity is permanently maintained.

IBT's dehumidification systems remove moisture through the masonry, with the following products offering various solutions and keeping the building permanently dry.

Where we become simple, values emerge.

Monika Minder

Simple technology instead of **fighting water**

MICROPORES DEHUMIDIFYING PLASTERS FOR INDOORS AND OUTDOORS

aerius plasters enable unrivalled water removal from damp substrates. They adhere permanently to salt-contaminated masonry and are therefore ideal for renovating these surfaces, as well as for plastering plinths indoors and outdoors. Our lime plaster can be applied for a fine surface finish.

AREAS OF APPLICATION

Old buildings/existing buildings: Renovation for permanent wall dehumidification indoors and outdoors. For listed residential properties, storage rooms, tunnels, churches, city walls, etc...

New build: As a preventative measure in cases of high stress, e.g. due to indoor climate, weather, pressurised water or in areas at risk of flooding.

MINERAL
BUILDING BIOLOGICAL
NATURAL

No chance **for moisture, mould** and **salts.**

aerius FP310 / FP340

The advantages speak for themselves

- Highly dehumidifying
- Highly permeable/high capillary suction
- Resistant to salts
- Heat and sound insulating
- Frost-proof
- Adheres to extremely wet masonry
- Permanently resistant to moisture and salt
- Prevents mould growth
- Stable and resistant to ageing
- Easy to work with
- Healthy living climate
- One material for everything

THE **aerius** FEATURES

Base renovation

Refurbishment in just a few working days
With aerius FP310/FP340, a renovation can be completed in 2-3 working days.

Day 1 Remove old plaster, joint renovation, preparatory work

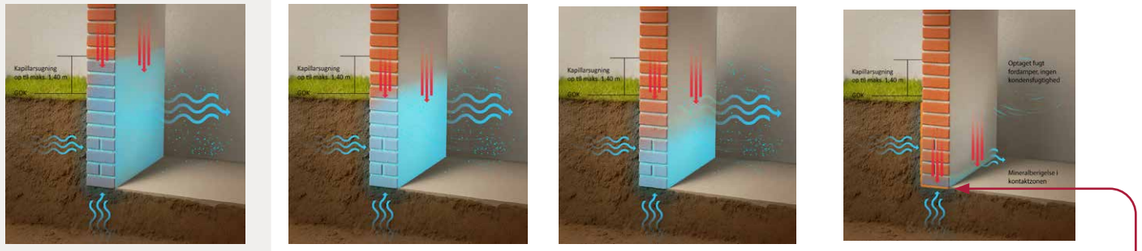
Day 2 Apply primer

Day 3 Apply the required plaster thickness, felt, done!

The majority of the salt load remains inactive in the dried masonry and cannot cause any further damage. The amount of salt that has already entered the plaster is minimal. The stable render structures and pore systems manage these stocks (anions always present) and suppress further crystallisation.

Before: Salts and moisture had previously destroyed the plaster in 2014.

Years later: No further destruction due to salts and moisture in 2023.



Natural capillary water rise in the masonry, up to **1.40 m max.!**

Drying of the masonry within a few weeks.

A natural barrier is created!

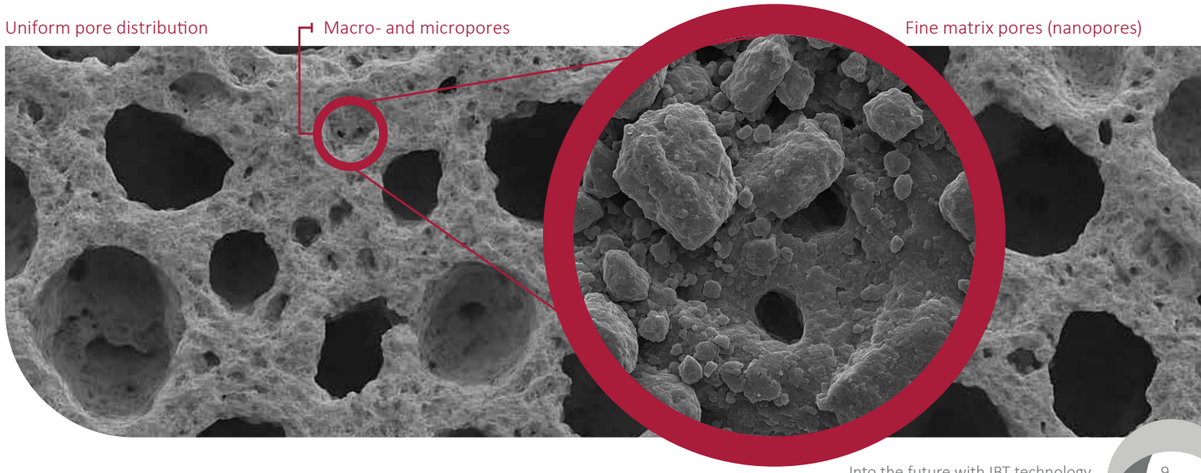
Dehumidify masonry

REFURBISHMENT IN JUST A FEW WORKING DAYS
The diffusion-open microporous structure quickly draws moisture from the substrate (capillary suction). Absorbed moisture in liquid form is distributed in the capillary pores over the entire plaster surface, converted into water vapour in the middle and final layers of plaster and evaporates on the specifically enlarged surface of the plaster or after application on a highly diffusion-open top coat.

The evaporation rate is always higher than the subsequent moisture content. By continuously repeating these cycles - starting in the lowest layers of the wall - a further increase in moisture is prevented.

THE MASONRY REMAINS PERMANENTLY DRY!
Repeated moisture cycles in the masonry lead to the accumulation of all minerals (salts, lime, etc.) in the foundation/wall area, which close the access routes into the pore systems.

Once the dehumidification process is complete, the plaster takes over the vapour regulation in the interior and highly diffusion-open top coats support this effect permanently. This prevents condensation from forming. Due to the high proportion of spherical pores, the aerius plaster system is also highly heat and sound insulating (high porosity/closed spherical pores).



LIGHTWEIGHT, INSULATING AND RAPID CEMENT SCREED

aerius screeds adhere permanently to damp floors and floor slabs and are therefore ideal for renovating these surfaces and as a preventative measure.

AREAS OF APPLICATION
Old/existing/new buildings:
Renovation and refurbishment work indoors and outdoors. For bathrooms, wet rooms and permanently wet areas, cellars, underground car parks and shop fitting. Terraces, balconies, stairs, etc.

MINERAL
BUILDING BIOLOGICAL
NATURAL

The quality of **our goals** often changes the **quality of our future**

aerius LZE324/LZE328

The advantages speak for themselves

- Can be walked on after 12 h
- Can be covered after 48-96 h
- Lightweight, insulating and rapid screed
- Accelerated construction process
- Permanently open to diffusion
- Impermeable to water
- Thermally insulating
- Sound-absorbing and insulating
- Homogeneous laying possible
- Low-expansion joint laying possible
- Good levelling properties
- 15-30 % lighter than conventional screeds

Anything that goes against nature will not last in the long term.

Charles Darwin

Walls and floors permanently dry

Reliably and permanently dry building structures with IBT's dehumidifying lime-cement products. From the floor to the ceiling, everything fits together and the result is first-class solutions.

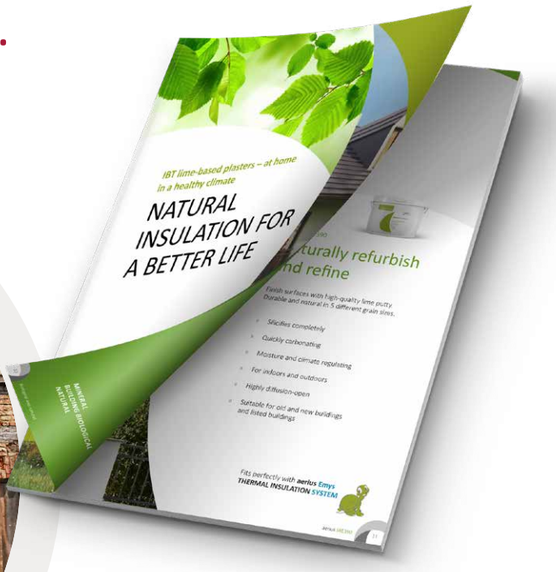
aerius FP310/340

Dehumidifying plaster

aerius LZE324/328

Dehumidifying screed

IBT products are used where conventional materials fail. Such as our finishing and insulating plasters, which are naturally pure lime plasters and conform to the requirements of listed buildings.



Renovating buildings with sustainable solutions for protection and value retention.

PRESERVING AND PROTECTING VALUABLE ITEMS

PRESERVED FOR FUTURE GENERATIONS
Our products not only protect new construction projects from potential damage. The preservation of old buildings is also very important to us. After all, sustainability is more than just resource-conserving production and the use of natural materials in our products. Preserving historic buildings for future generations also contributes to a sustainable approach.

WHERE OUR PRODUCTS ARE USED
Preserving and protecting the value of historic buildings is the concern of many building authorities and cultural institutions. They rely on our products and solutions, as do numerous fabricators, architects and planners.

NEUSCHWANSTEIN CASTLE
The fairytale castle of King Ludwig II in Bavaria was built between 1869 and 1886, and moisture damage in the cross vault of the souvenir shop was repaired with our solutions.

Building supervision/planning: State Building Authority, Kempten
Architect: Herrman Hagspiel, Kempten
Execution of plastering work: Malerbetrieb
Kober, Malen und Gestalten GmbH

Image source: wikipedia.de

ALLMENDINGEN CASTLE
Our solutions were used for the restoration of moisture damage to all exterior walls (interior) of the castle, which was built in the 18th century, and for energy-related repairs.

Client: Baron Ernst von Freyberg, Allmendingen
Supervision: UDSchB-Alb-Donau-Kreis
Architect: August Münz, Allmendingen
Execution: Malerbetrieb Traub, Allmendingen
Image source: wikipedia.de

CATHOLIC PARISH CHURCH ST. JAKOB SAMNAUN (CH)
The exterior plinths of this building were also renovated with our products.

Client: Catholic parish of Samnaun
Architect: Eugen Jenal - AT7 Architektur AG
Execution: Maler Gipserei Greiner AG,
Sta. Maria - Zernez

VILLA MAREIN, MERANO
All walls exposed to moisture and salt in the interior ground floor area up to a height of 1.40 m with aerius dehumidifying plaster FP310. All exterior walls (interior) and reveals with aerius Emys KDS055 lime insulating plaster.

Clients: Rainer, Kessler, Palladino
Architects: Georg Klotzner, Sabine and Klaus Valtingojer, Merano
Construction management: Geom. Hanspeter Palla, Merano
Facade: Restorer Pescoller, Brunico

KUCKUCKSTEIN CASTLE
According to tradition, the castle was built between 930 and 940 under Henry I as a border fortress. Our plasters were used to repair the moisture damage in the vaulted cellar.

Planning / construction supervision:
Dipl. Ing. Dirk Böhme, Dresden
Builder: Natur-Romantik GmbH & Co. KG
Funded and supported by:
State funds Saxony, Federal funds,
Foundation for Monument Protection
Image source: wikipedia.de

RAVENSBURGER MUSEUM, RAVENSBURG
The exterior plinths of the building, built in 1416, were renovated with our plasters.

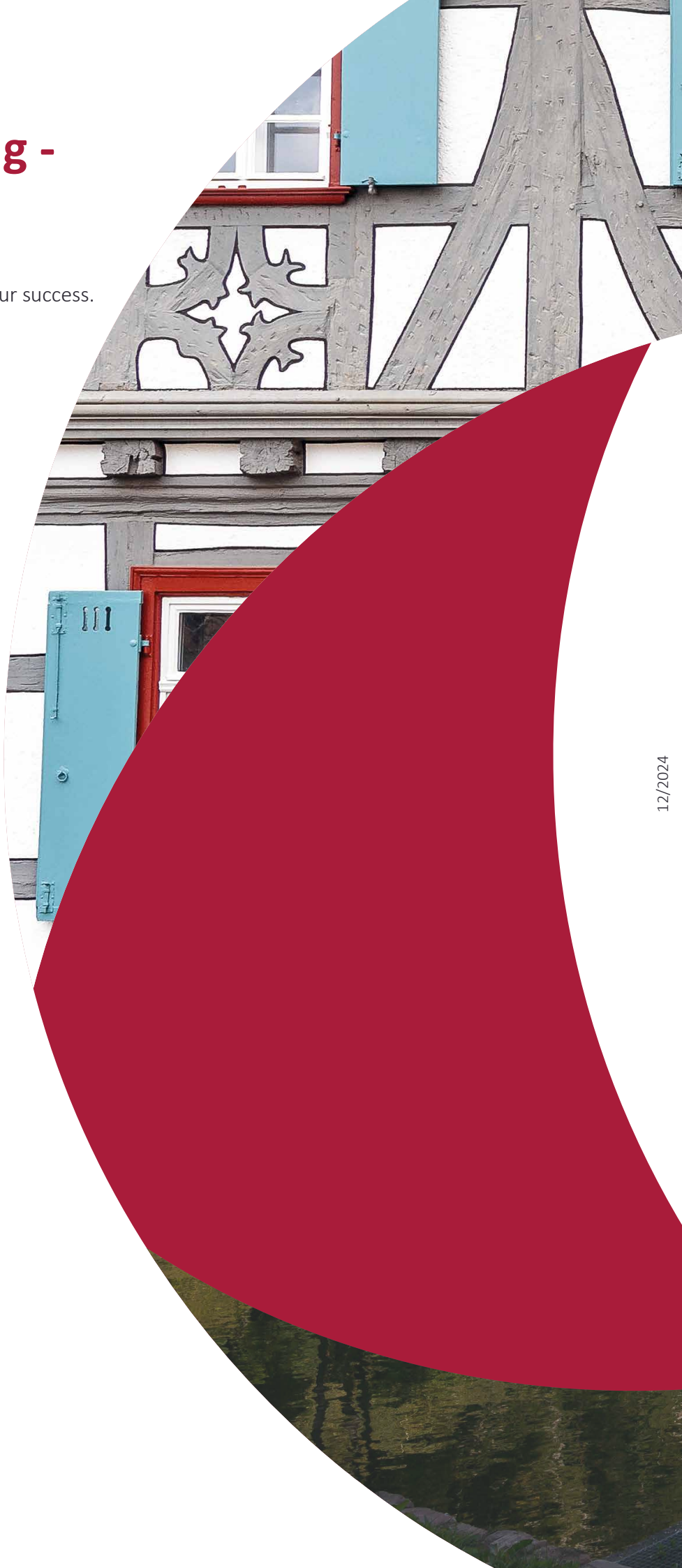
Client: Ravensburger AG
Supervision: UDSchB RV/LAD Stuttgart
Execution: Malerbetrieb Peter Schlegel

MUSIKHAUS LANGE, RAVENSBURG
Refurbishment of the exterior plinth.

Building owner: Erich Lange
Supervision: UDSchB RV/
LAD Stuttgart
Execution: Malerbetrieb
Peter Schlegel

Natural building - healthy living

Working with the laws of nature is our success.



12/2024

IBT

www.trockenewand.com