

RENOVATION OF HISTORIC BUILDINGS



TABLE OF CONTENTS

01	ABOUT BOLIX	04
02	Building damages and their repair	08
03	Proposed solutions – BOLIX Kamienica	14
04	BOLIX Kamienica colour palette	20
05	Reference buildings	24



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ABOUT BOLIX

BOLIX is a well-established brand in the construction chemicals market, recognised for offering products of the highest quality.

BOLIX is synonymous with quality, reliability, and innovation. Responding to customer expectations, we continuously improve our products and introduce new solutions.

Based on many years of experience and close collaboration with stakeholders in investment processes, our company has developed the BOLIX Kamienica product range dedicated to historic building conservation. The offered products are essential for repair works, starting from protecting foundations against water ingress, through façades and interiors, to intricate ornaments that highlight the distinctive and unique appearance of each building's elevation. Detailed product specifications provided in technical data sheets allow precise functional matching of the product set to specific application conditions while meeting the highest standards required in Conservation Work Programmes.



HERITAGE CONSERVATION

The conservation of historic monuments is a matter of public interest aimed at preserving the testimony of past eras and the traces of human activity. This field is inherently interdisciplinary, bringing together a diverse range of specialists, including art historians, conservators, and engineers specialising in construction, materials science, and architecture.

BUILDING DAMAGES

and Their Repair



COMMON TYPES OF DAMAGE ENCOUNTERED

Changes in the surroundings of buildings significantly affect not only the façades but, most importantly, the safety and durability of the entire building structure. To ensure the highest longevity of renovation works, it is essential first to identify all damages, determine their causes, and then optimise repair methods by selecting appropriate technical and technological solutions, alongside suitable construction materials, while simultaneously eliminating or minimizing the impact of adverse factors.



It is important to remember that neglecting the required conditions and standards buildings must meet can render even the best materials ineffective. A prime example is the failure to carry out repairs or install a new rainwater drainage system prior to renovating the building façade.

Leaking rainwater drainage system



Defects caused by capillary rising damp and salt crystallisation



Microbiological contamination



Peeling and flaking paint coatings



Delaminating wall claddings (terrazzo, tiles)



Poorly executed plaster repairs

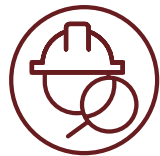


Cracks and fissures in the plaster coating

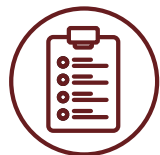


TYPICAL PROCEDURE SCHEME BEFORE COMMENCING RENOVATION WORKS

Before starting repair or renovation works, the building should undergo a thorough analysis, including a visual inspection and a series of tests, as outlined in the following schematic overview:



1. Building Inspection



2. Identification of damages/defects and their probable causes, along with an analysis of the building's structural condition



3. Development of the scope of in-situ and laboratory tests and their analysis



4. Determination of the scope and method of repair and renovation works, taking into account the current and future use of the building



5. Proper execution of renovation works



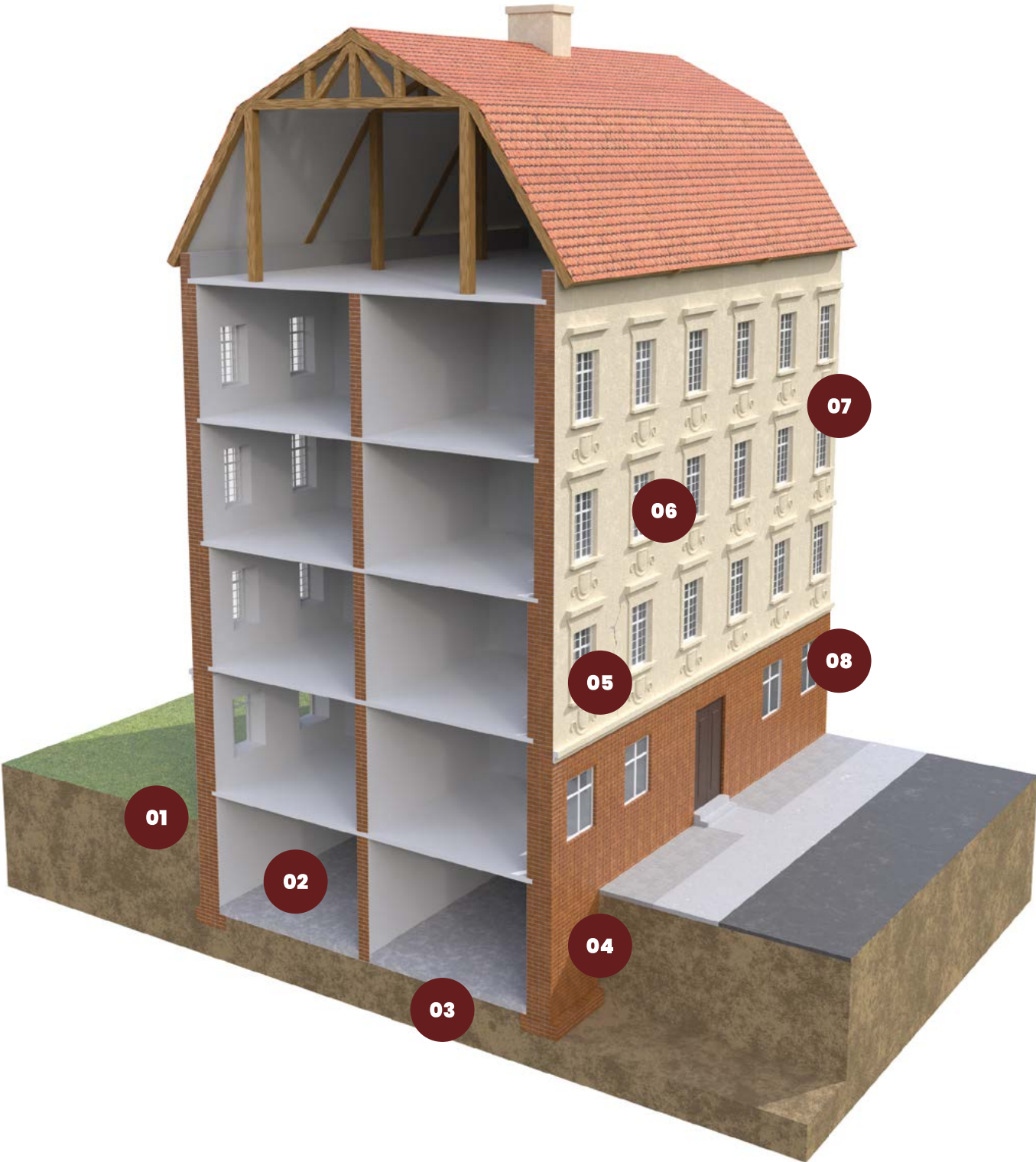
PROPOSED SOLUTIONS

Bolix Kamienica

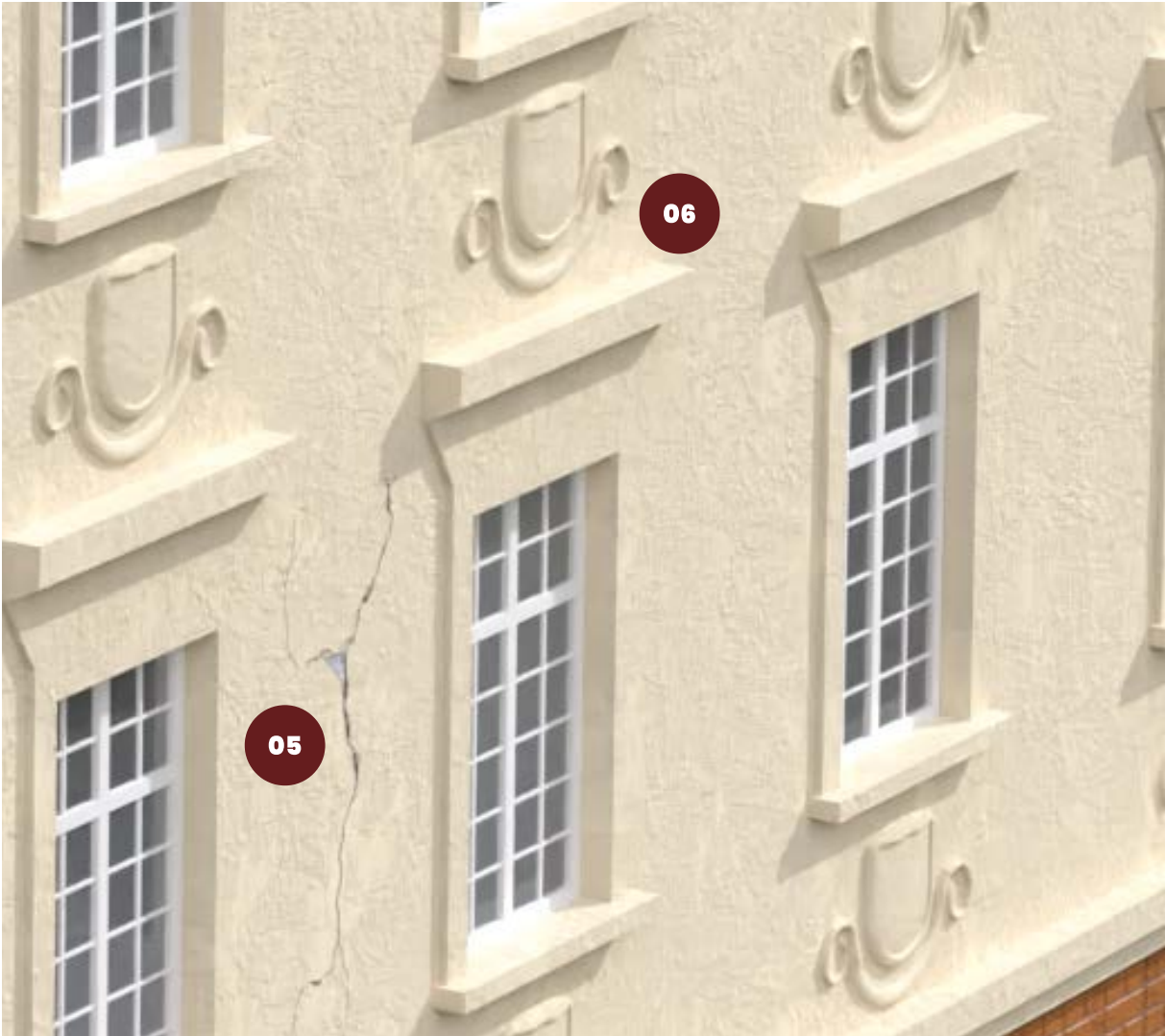
Historic buildings are unique structures that require special solutions, technologies, and an individual approach to maintain them in good condition. BOLIX Kamienica is a comprehensive range of products and technologies enabling a full spectrum of conservation and renovation activities.



PROPOSED SOLUTIONS - BOLIX KAMIENICA



- 01 HORIZONTAL WATERPROOFING
- 02 INTERNAL WATERPROOFING
- 03 BASEMENT FLOOR
- 04 EXTERNAL WATERPROOFING
- 05 CRACK REPAIR
- 06 ARCHITECTURAL DETAIL RESTORATION
- 07 RENDERED FAÇADE RENOVATION
- 08 BRICK/STONE WALL RESTORATION



Surface Preparation

One of the most critical processes in renovation works is the proper preparation of the substrate, which ensures the correct execution of subsequent work stages. This includes, among others, cleaning and priming the substrates using dedicated products.

Crack Repair

The causes of cracks in masonry are varied, including uneven settlement of buildings or vibrations occurring in the immediate vicinity of structures. To re-bond the masonry elements, the use of K-KS spiral anchors is recommended.

Waterproofing

Water present in the building environment poses one of the greatest threats to the durability of structures. Therefore, it is essential during renovation works to ensure proper protection of buildings against moisture penetration by implementing appropriate technical and technological solutions, alongside the selection of compatible and carefully chosen products tailored to the specific building. Depending on the source of moisture, the most common waterproofing methods include:

- External vertical waterproofing based on:
 - Thick-layer bituminous coatings modified with synthetic polymers (PMBC)
 - Mineral, flexible thick-layer coatings modified with polymers (FPD)
- Internal vertical waterproofing (when external waterproofing is technically unfeasible or uneconomical)
- Horizontal waterproofing performed by injection
- Ground floor waterproofing

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Architectural Detail

Stucco elements such as ornaments, cornices, and window surrounds highlight the distinctive and unique appearance of each building's façade. These features often require localised repairs or complete restoration during renovation works.

Mortars for Brick and Stonework

Buildings featuring exposed brick and stone masonry on façades are an integral part of the urban landscape in many cities. Mortars dedicated to the restoration of joints, filling voids in brick or stone elements, and reconstructing sections of walls should possess physical and mechanical properties as closely matched as possible to those originally used.

Water-Repellent Paint Coatings

A durable façade is a properly protected façade. To extend its longevity, achieving the lowest possible water absorption while maintaining free water vapour permeability, it is recommended to use renovation paints based on silicate and organosilicate binders or hydrophobising agents.

Complementary Products and Solutions

In addition to specialised products for renovation works, BOLIX offers a wide range of complementary

COLOURS BOLIX KAMIENICA

A carefully selected façade colour completes renovation works. To ensure the best possible reproduction of the original façades of historic buildings, we have created a dedicated colour collection for products within the BOLIX Kamienica range.



The colours shown are for reference only; these are print reproductions and the actual colours may differ from those depicted in the catalogue.

K40 NCS 502Y50R	K10 NCS 502Y
	K20 NCS 1000N
	K30 NCS 502G50Y
K70 NCS 0515Y20R	K50 NCS 0804Y30R
	K60 NCS 1030Y10R
	K80 NCS 1015Y30R
K100 NCS 2500N	K90 NCS 3000N
	K110 NCS 2502Y
	K120 NCS 4005Y20R
K150 NCS 1505Y40R	K130 NCS 2005Y60R
	K140 NCS 2002Y50R
	K160 NCS 4005Y50R
K180 NCS 2005Y20R	K170 NCS 3005Y50R
	K190 NCS 2005G90Y
	K200 NCS 1505Y50R

K220 NCS 3010Y20R	K210 NCS 3005Y20R
	K230 NCS 3005G80Y
	K240 NCS 5005Y20R
K260 NCS 3010Y	K250 NCS 3010Y10R
	K270 NCS 2005Y40R
	K280 NCS 1505Y40R
K300 NCS 2010Y40R	K290 NCS 3020Y30R
	K310 NCS 1515Y20R
	K320 NCS 5020Y20R
K340 NCS 3030Y20R	K330 NCS 3030Y20R
	K350 NCS 3020Y20R
	K360 NCS 2020Y20R
K390 NCS 2010Y70R	K370 NCS 5010Y70R
	K380 NCS 6010Y70R
	K400 NCS 1005Y70R

REFERENCE BUILDINGS





Hotel Royal, Kraków

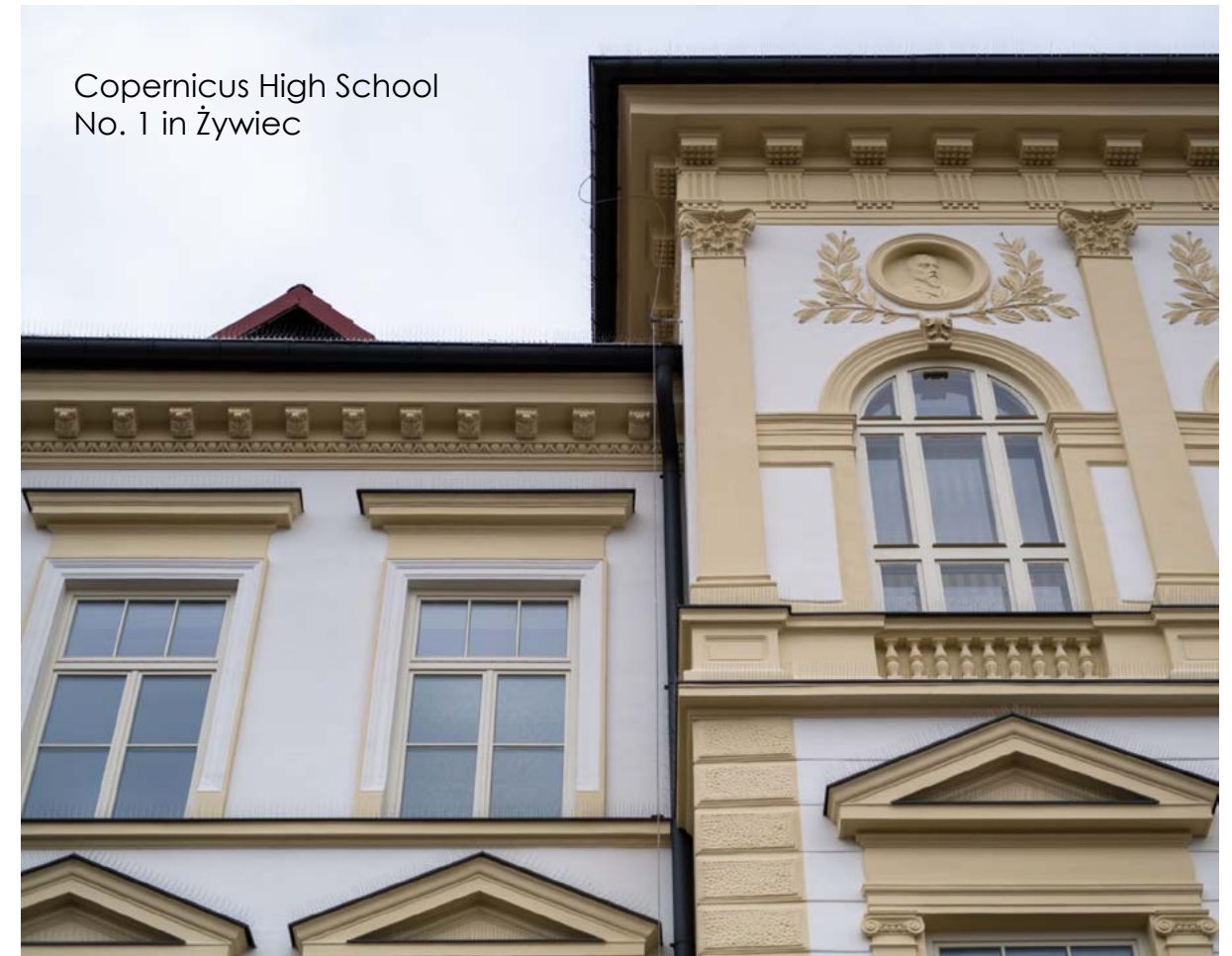


Bielsko-Biała, Dmowskiego Street



City Hall, Władysławowo

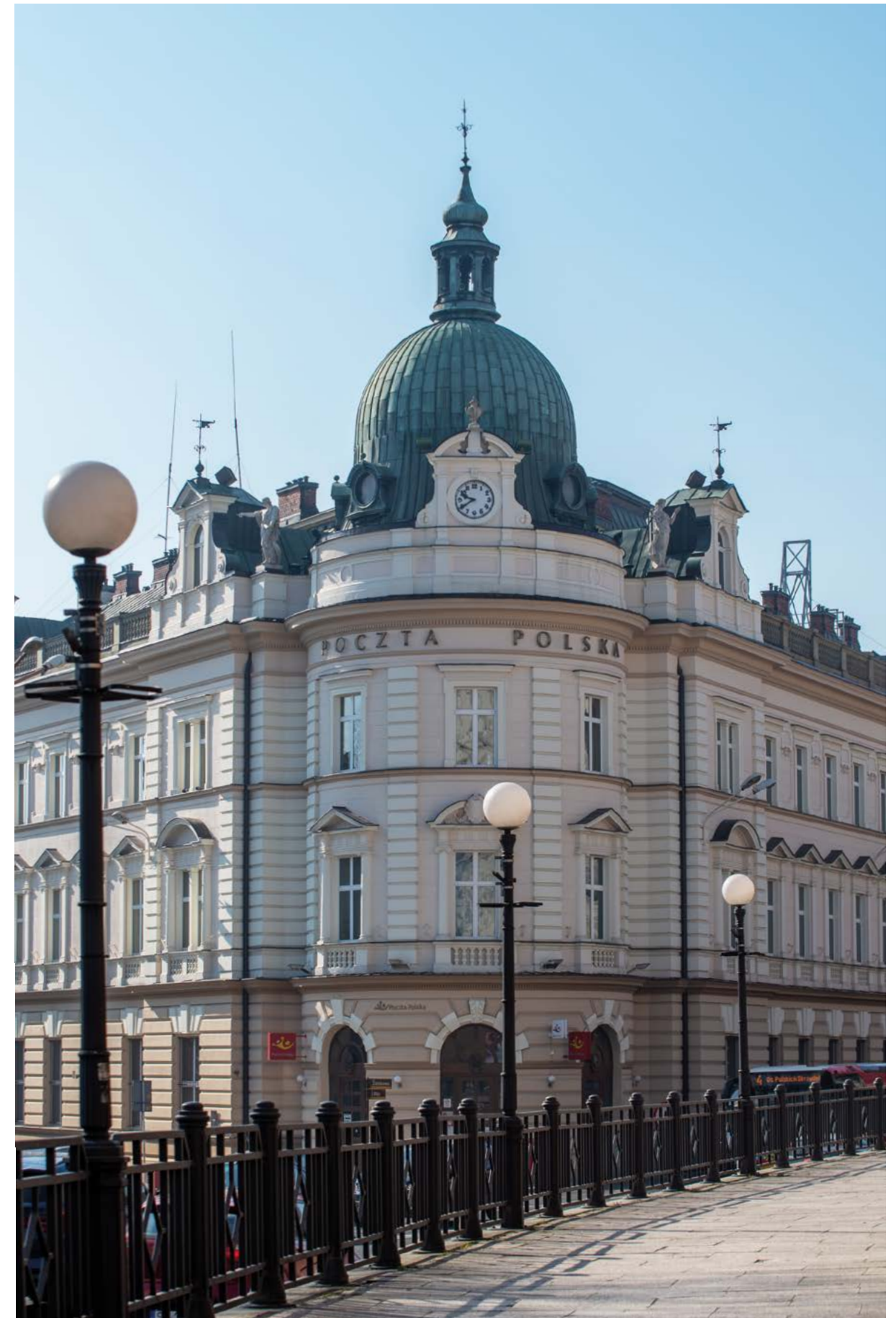




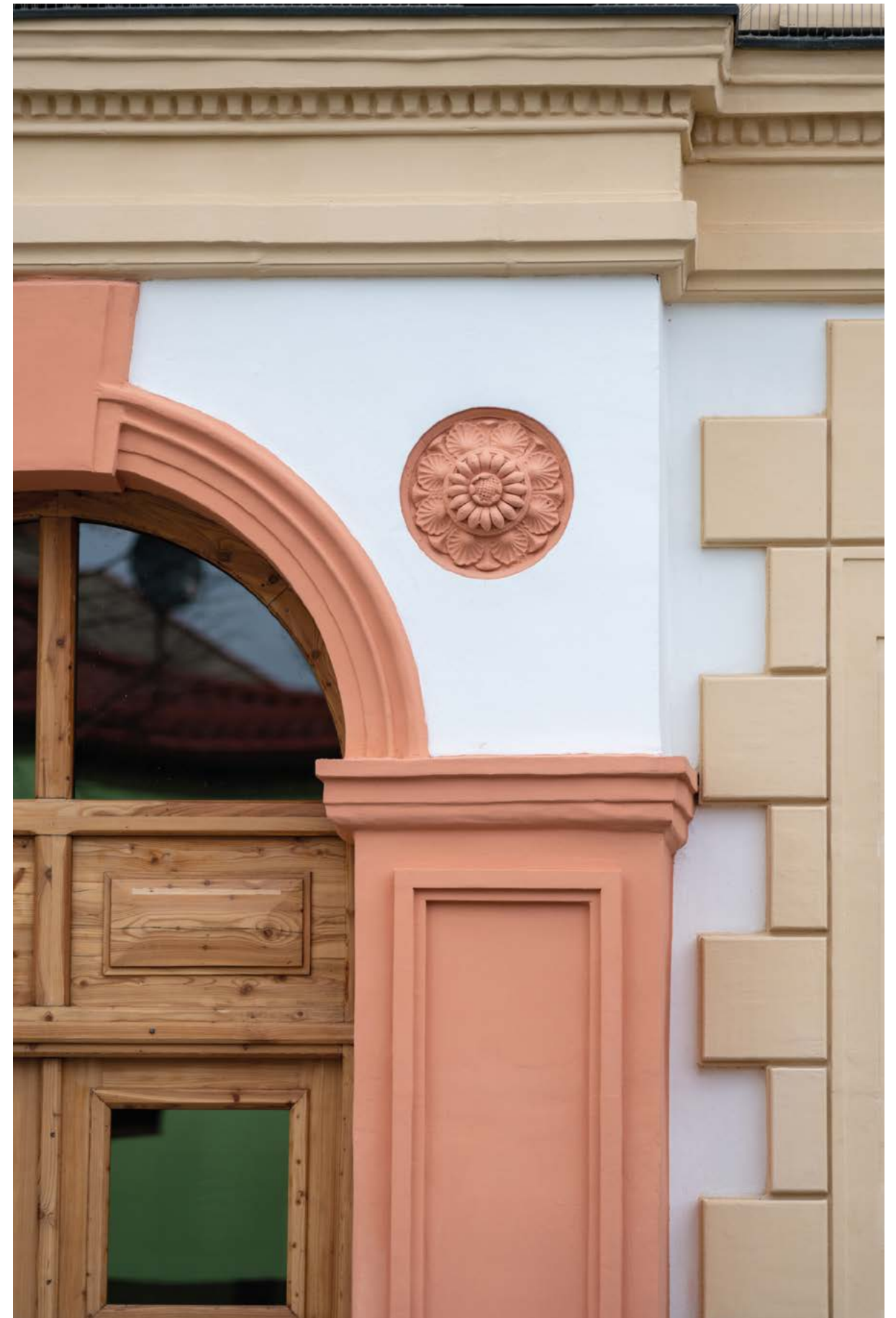
Copernicus High School
No. 1 in Żywiec

Main Post Office in Bielsko-Biała



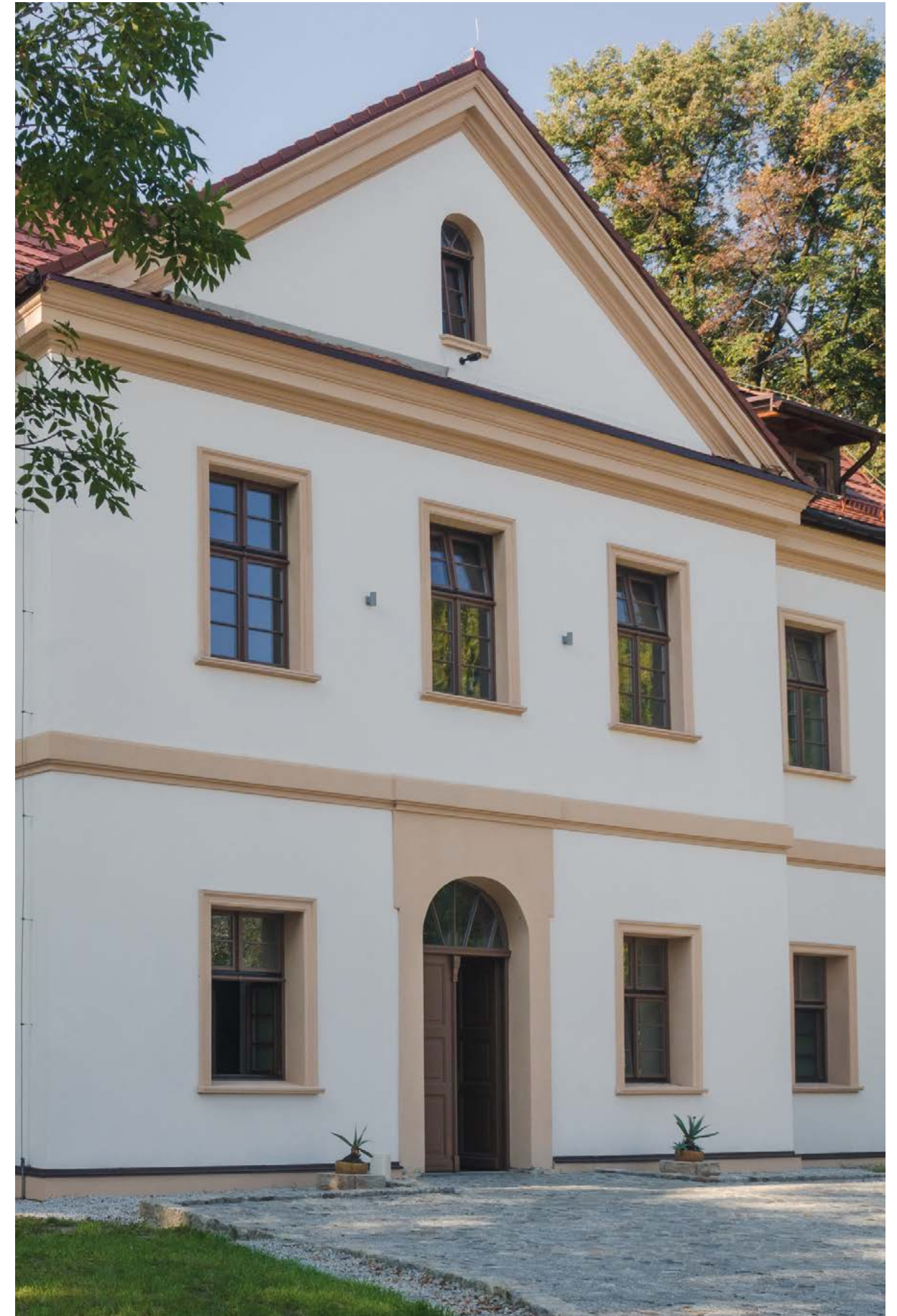
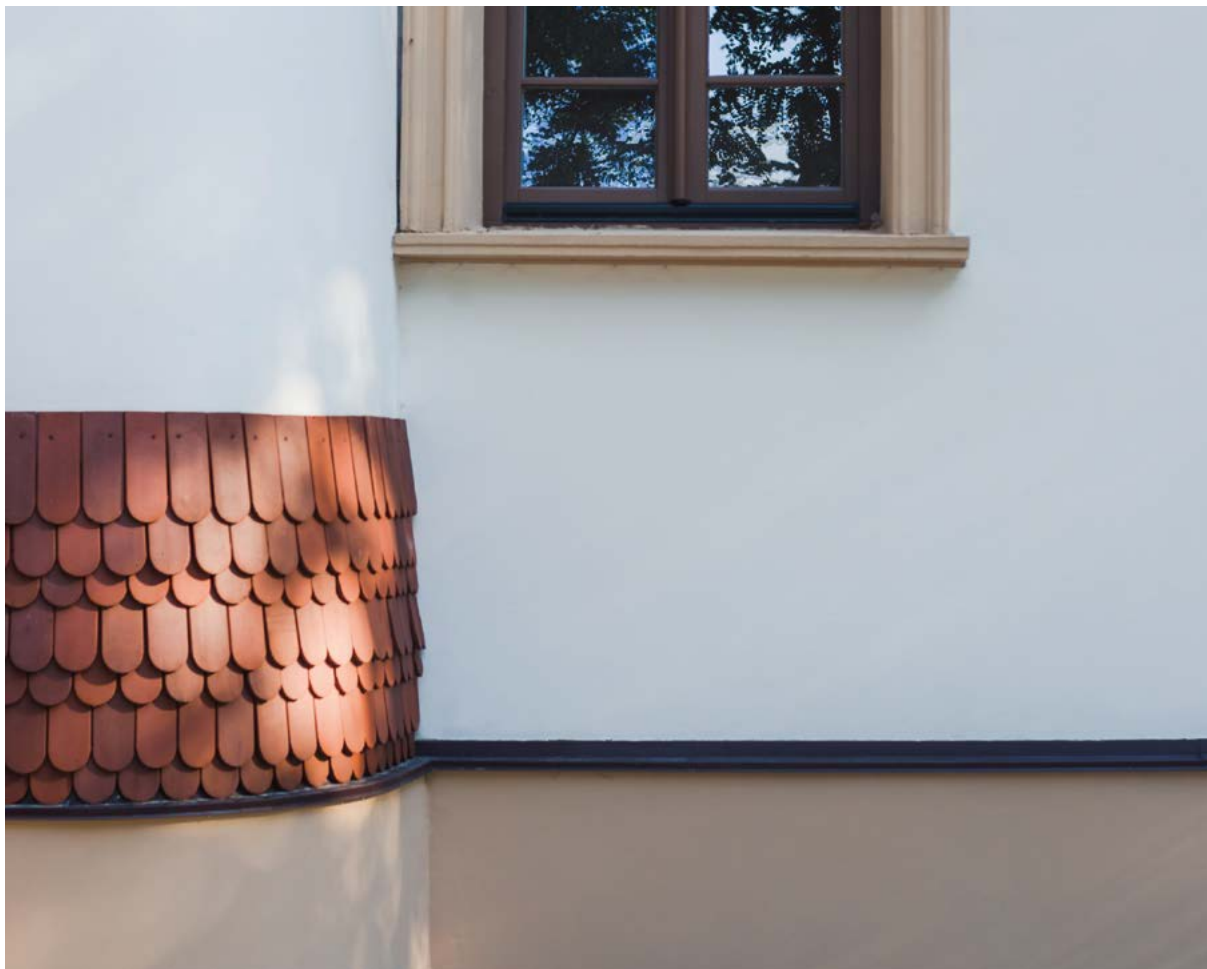


Economic and Gastronomic School Complex
in Żywiec



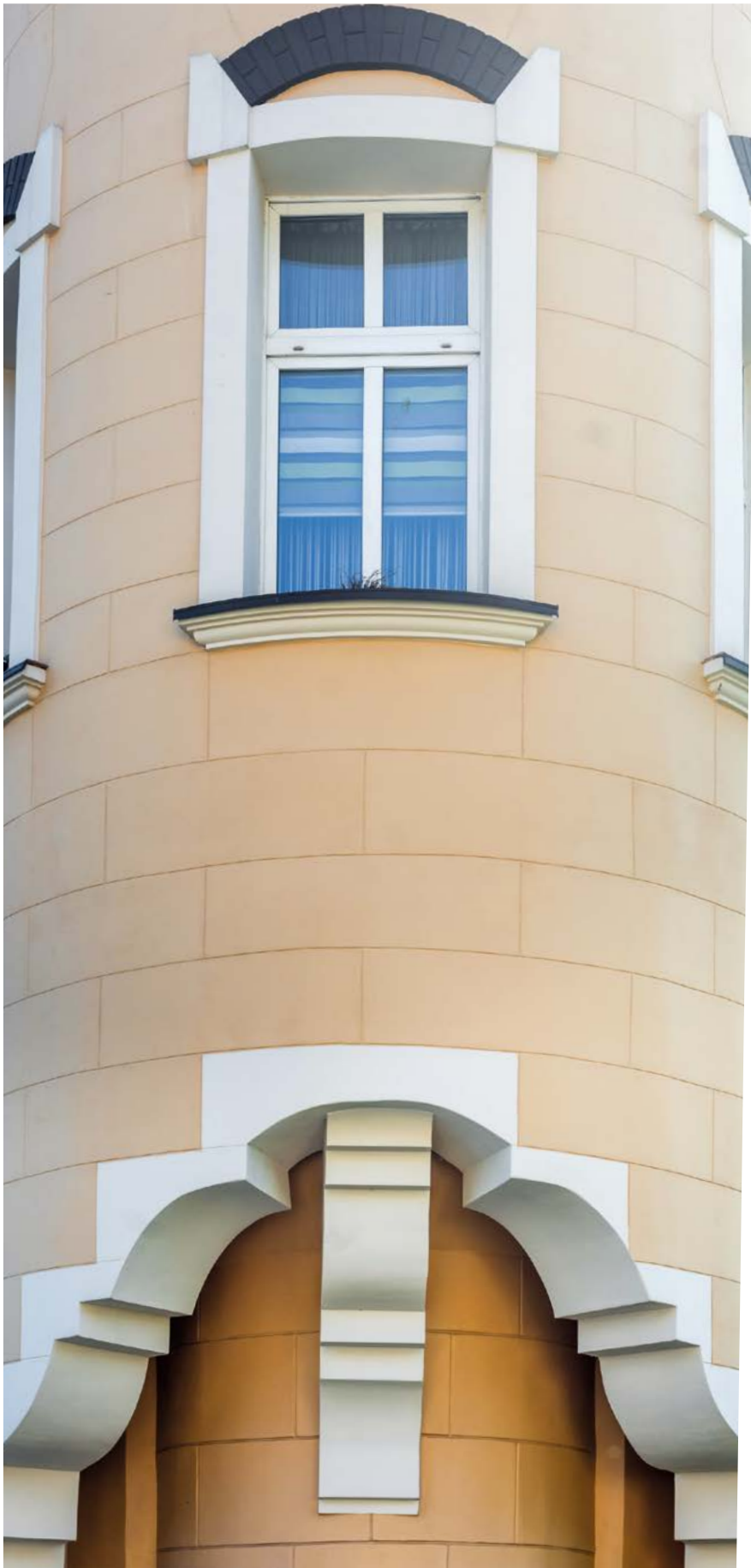
Zabrze, Lipowa Street





Mysłowice, Katowicka Street







Mysłowice, Dąbrowskiego Street



Brzeg, Jana Pawła 2 Street





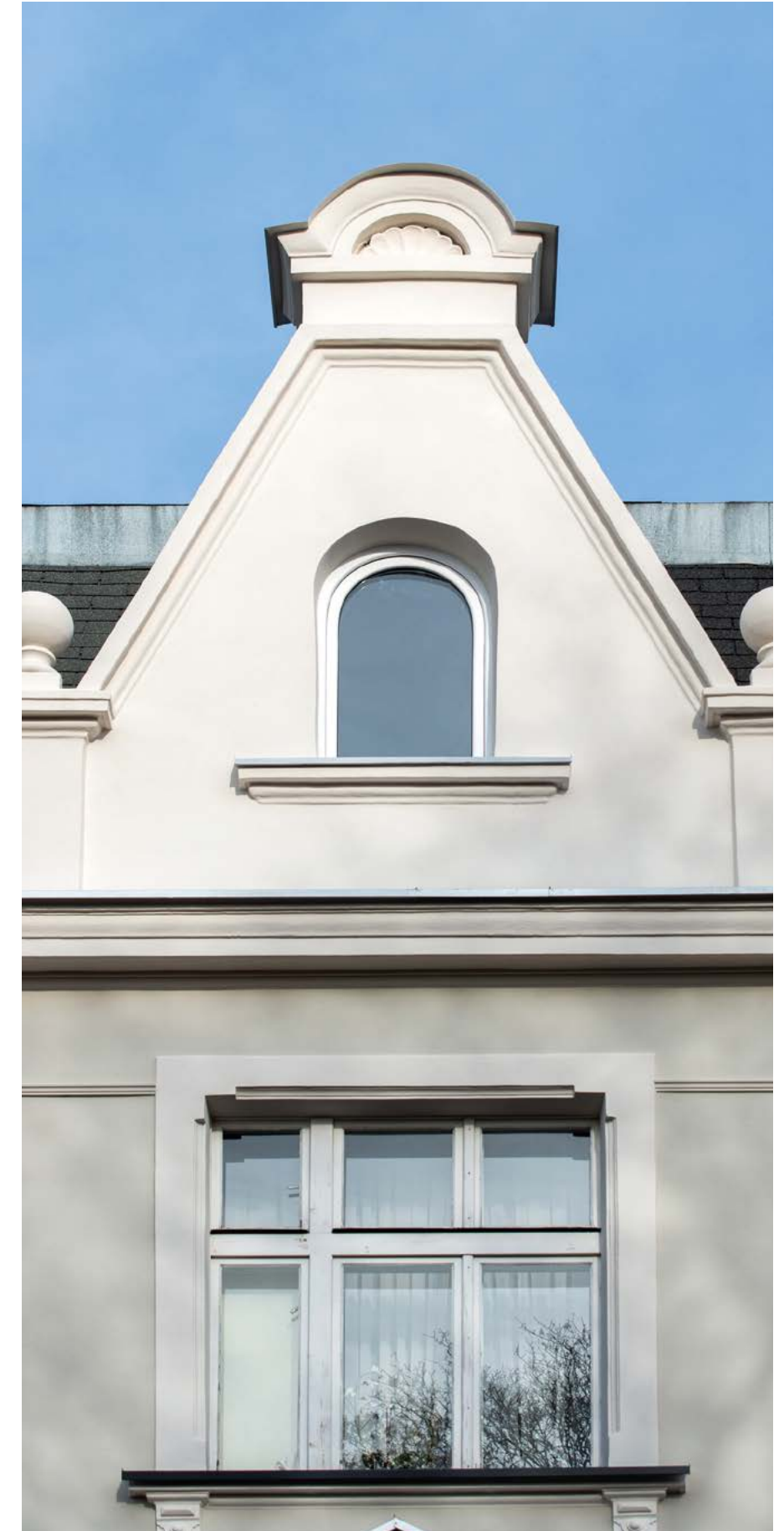


Wrocław, Krakowska Street





Gliwice, Jagiellońska Street





Bieruń,
Market Square



Bytom,
Powstańców Warszawskich Street



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