



Steel Systems

Steel systems for windows, doors and facades

Jansen steel systems:
a commitment to quality.
When function and safety
blend with design and
aesthetics.

A family enterprise backed by tradition – as richly varied and modern as its solutions in steel.

Founded at Oberriet in Switzerland in 1923, Jansen has grown into an international high-tech business. Much has changed in the company's history, dating back for more than 90 years. Our expertise has grown, but our core business has stayed the same: we create innovative, personalised solutions for our customers.





«Architecture» means the art of building. Like every other art form, architecture is inspired by people and inspires them in its turn. Apart from the functional criteria which a building must satisfy, its aesthetic aspects determine personal well-being and preferences.

Our customers' criteria and needs are all different and special. Our offer is therefore sufficiently varied and innovative to meet those demands. Jansen develops and manufactures systems made of steel. Steel systems in fact.

Jansen steel and stainless steel systems feature an impressive range to provide comprehensive system solutions for **investors, architects, planners and metalworkers**. They meet the highest standards of performance and safety, energy efficiency and service life.

This quality, combined with our innovative strength, our all-round expertise

and excellent advice service, gives our customers the benefit of genuine added value.

Our customers have access to **window, door and facade systems plus a wide choice of fittings and accessories, supported by expert assistance in planning, processing and logistics** – all from a single source. Our comprehensive offering includes wide-ranging technical advice and training, together with documentation, system tests and specific design software for calculations and determining material requirements.

We accompany you from the initial idea

through to completion on site and pay careful attention to your individual project criteria.

True to the maxim «form and function perfectly combined» Jansen Steel Systems set aesthetic standards and shape modern building technology – **to erect new buildings or renovate existing and historic structures.**

Close customer relations enable us to know what your wishes are. We place our know-how and our ability to innovate at your service. Thus we are able to supply solutions today to meet your wishes of tomorrow.

Our steel systems are tailored to meet your requirements. The lightness of being. With steel.

Steel lies at the very heart of our daily lives. Our expertise in the use of this material provides the basis for first-class solutions. Our highly expert advice in turn is the key to the completion of your unique projects.

Architects appreciate the universal design capability of steel, its stability and functional quality and metalworkers the precise manufacturing methods and straightforward assembly of steel systems.

Formable and robust

As a leading manufacturer, Jansen develops, manufactures and distributes worldwide steel systems suitable for complex standard solutions as well as exceptional, special requirements. Jansen exploits the many qualities of steel to develop potential solutions in which function and design are not contradictory but complementary terms.

Strong and lightweight

The expression «nerves of steel» did not come about by chance. No other material can carry such large loads with so little volume. Thanks to the strength, flexibility and loadbearing capacity of steel, wide spans can be bridged and slender structural elements installed.

Safe and elegant

We can therefore offer you individual, delicately proportioned solutions which do justice to every demand placed on design and aesthetics and, at the same time, satisfy architecturally challenging or unusual requirements, without compromising safety.

Jansen Steel Systems are pioneers in all safety matters - from fire protection to burglar and bullet resistance.

Ecological and timeless

Jansen's highly insulated steel systems for doors, windows and facades also guarantee sustainable construction and energy-efficient use of buildings. Unsurpassed in terms of service life, recyclable and almost 100 per cent reusable, steel is a material that makes genuine ecological sense.

SAFETY AND PROTECTION

- fire protection
- burglar resistance
- bullet resistance
- sound reduction

AESTHETICS AND DESIGN

- transparency and lightness
- flexibility
- material combinations
- building in existing fabric

PORTFOLIO OF SERVICES

- planning
- technical advice
- processing and installation
- project solutions
- international approvals
- warehousing and logistics

SUSTAINABILITY

- durability
- energy efficiency
- thermal insulation
- recyclable

iGuzzini Illuminazione Ibérica, Barcelona, Spain

Voentorg Center, Moscow, Russia

Theatre and Concert House, Kilden, Norway

Airport, Graz, Austria

Mausoleum of the Terracotta Warriors, Xian, China

ANZ Bank, Auckland, New Zealand

Centre Pompidou, Metz, France

Centraal Station, Rotterdam, The Netherlands

27 Regent Street, London, England

Acoustic Tunnel, Warsaw, Poland

U-Tower, Dortmund, Germany

Sagrada Família, Barcelona, Spain

Jin Ji Hu Kempinski Hotel, Suzhou, China

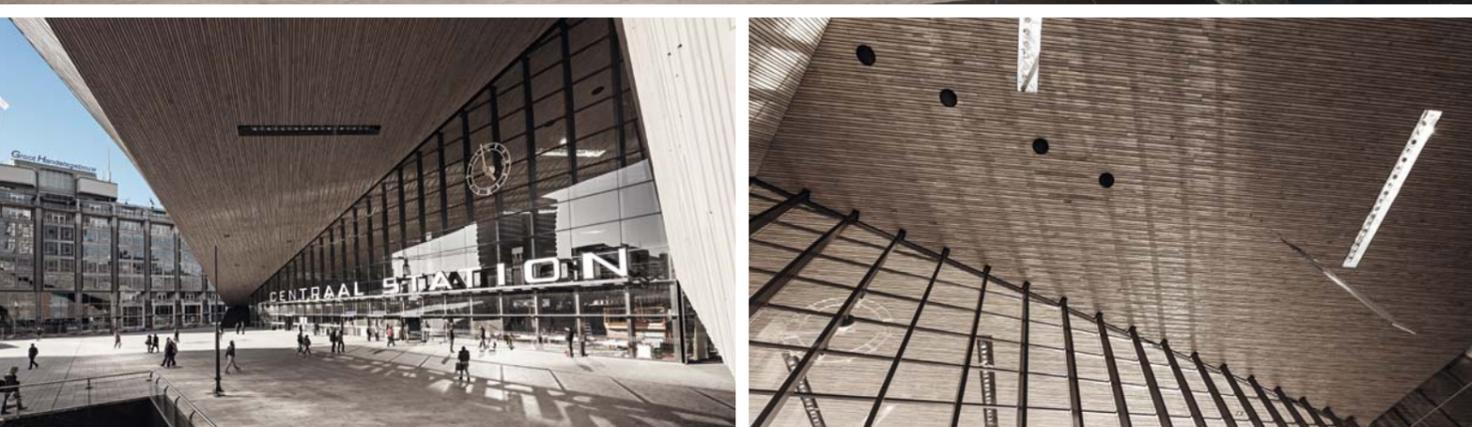
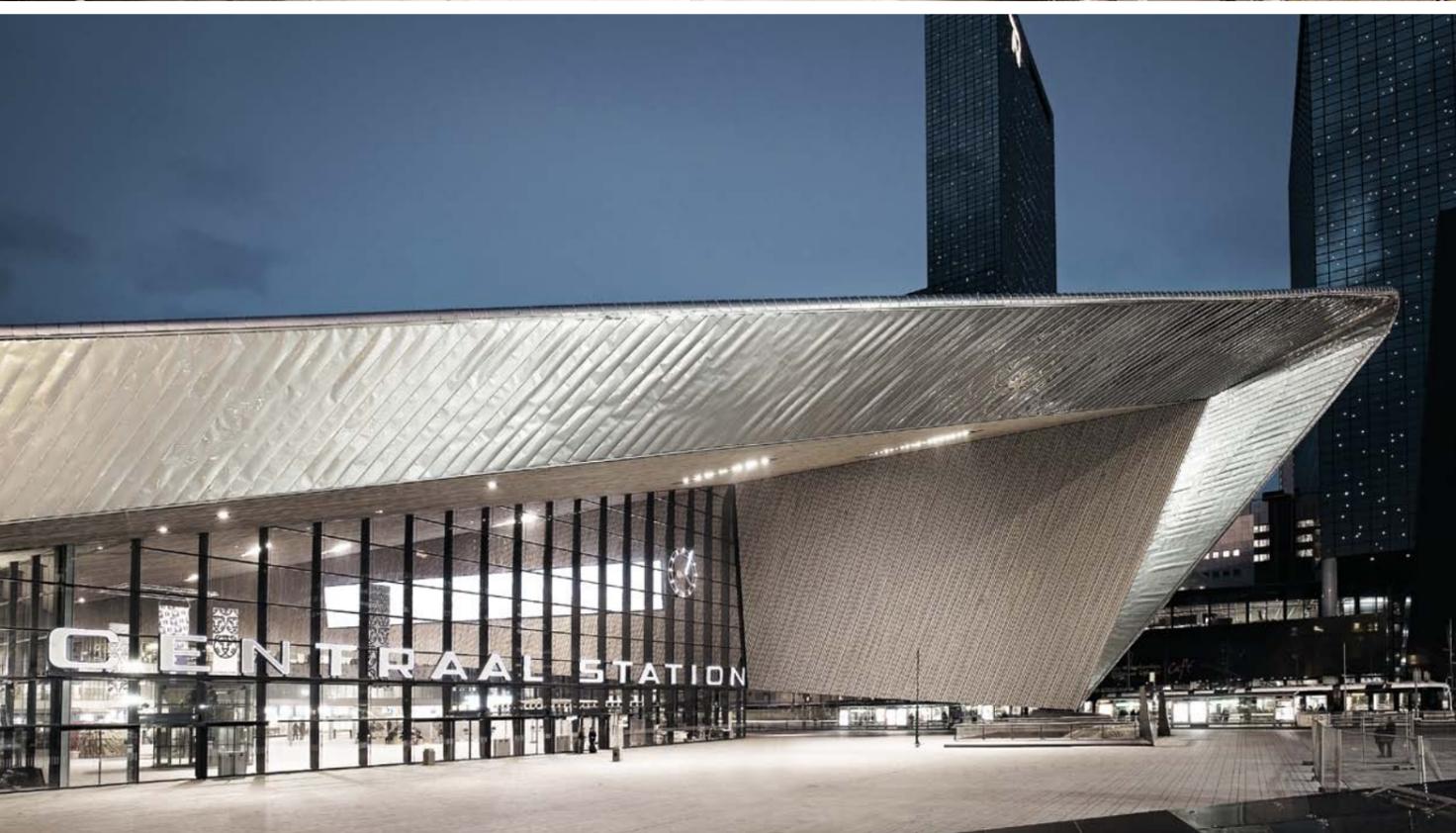
Museum of Modern Art, Zagreb, Croatia

Cais da Princesa, Lisbon, Portugal

«Geopolis» University, Lausanne, Switzerland

Keifi Tea House, Ankara, Turkey

North Shore Hospital, Auckland, New Zealand



Centraal Station Rotterdam, The Netherlands

THE PROJECT

Linked up to the European high-speed rail network, Rotterdam's main station is a busy transport hub for international rail traffic and also houses one of the main underground stations. In the next ten years, the number of commuters is expected to reach as many as 300,000 daily. Obviously, the safety requirements of a public building of this kind are of paramount importance. This was a key factor in determining the new design.

THE ARCHITECTS

Team CS - a consortium of Benthem Coruwal Architects, MVSA Meyer and Van Schooten Architects and West 8, The Netherlands.

THE CHALLENGES

Durability, safety and protection, aesthetics and design.

THE SOLUTION

Facade system, VISS Basic: The large entrance hall with its pointed stainless steel roof endows the station with an unmistakable identity. The facade area, measuring some 3000 square metres, is up to 20.5 metres high. Each of the 2.7 metre wide and 1.7 metre high glass panes weighs 700 kilos. VISS Basic was used for the lightweight steel structure to ensure perfect long-term safety and stability, especially as the facades and roof are exposed to extreme wind loads.

Door systems, Janisol & Jansen-Economy: Large automatic doors incorporated into the facade serve as public entrances.

Fire-resistant glazing, VISS Fire: Steel systems with transparent fire-resistant glazing were used for the interior facades to comply with fire protection standards up to EI60.



27 Regent Street London, England

THE PROJECT

Regent Street is one of the most prestigious shopping streets in London, close to the famous Piccadilly Circus. In the past, its historic buildings were mainly used for business purposes. Today it has become the perfect residential address for lovers of city life. The sustainable reuse of the building to create modern residential architecture presented the designers with special challenges. As the facade, like most in the area, has protected monument status, the emphasis here was on renovation of the historic window design while respecting the existing style. At the same time, a sustainable building shell had to be produced for contemporary use and the challenges of sound reduction and thermal insulation had to be met in every respect.

THE ARCHITECTS

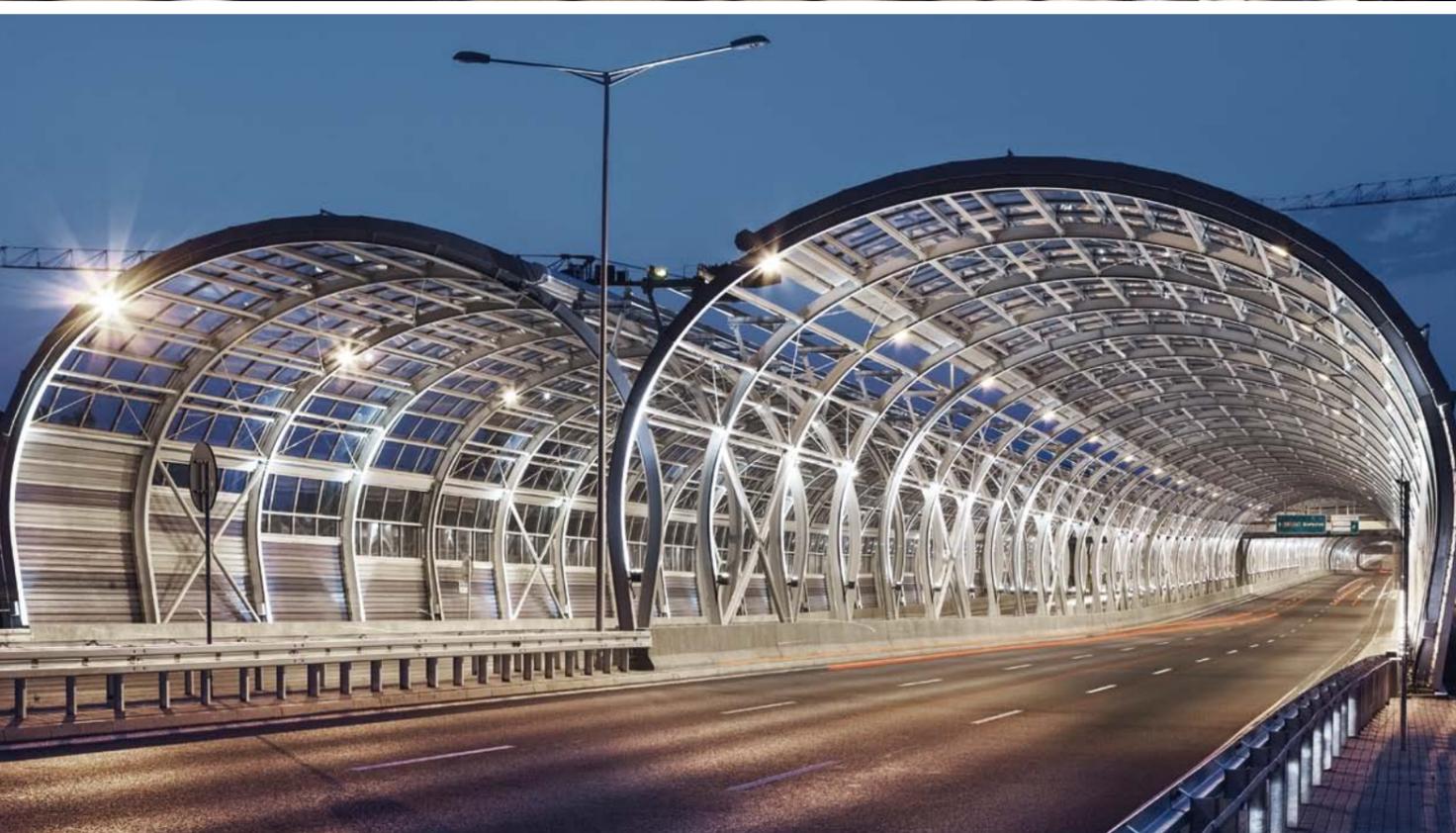
Erik Parry Architects, England.

THE CHALLENGES

Aesthetics and design, building in existing fabric, energy efficiency, thermal insulation, sound reduction.

THE SOLUTION

Janisol Arte & Janisol Primo window systems: The facades of 27 Regent Street are richly structured. The architects opted for Janisol Arte ultra-filigree steel profiles to ensure that the replacement windows do not impair the overall impression of the facade architecture. These profiles create a fine network in front of the big windows and resemble very closely the style of the original windows. The face width of these profiles is between just 25 and 40 millimetres, with a structural depth of 60 millimetres. They guarantee compliance with modern standards of sound reduction and thermal insulation. Some of the windows facing Piccadilly Circus required enhanced sound reduction. Here, a double window solution was chosen. Certain French windows are more than 2.2 metres high. Janisol Arte combined with Janisol Primo was selected for this particular application.



Acoustic Tunnel Warsaw, Poland

THE PROJECT

Poland's capital city is expanding - with an increasing amount of traffic and noise emissions. When Expressway S8, the Trasa Armil Krajowej, was extended, the neighbouring residents were afraid of exposure to even more noise. The local authority took their fears seriously and decided to build a steel and glass structure over the widest point. This roof covers all 14 carriageways and fits in perfectly with the aspect of the city. It is one of the few structures of its kind in Europe, and unique in Poland.

THE ARCHITECTS

Grotte Art and Transprojekt-Warszawa Sp. Z o.o, Poland.

THE CHALLENGES

Sound reduction, transparency and lightness, safety and protection.

THE SOLUTION

Roof glazing system, VISS Basic: Highly effective yet at the same time transparent: that was the aim. The «bright roof», a structure of steel systems and overhead glazing using special Pilkington glass, extends over a length of 1.2 kilometres with emergency exits at 200 metre intervals. The supporting structure is a semi-circular arch of steel girders set at intervals of 6 metres with a diameter of 32 metres at the narrowest and 64 metres at the widest point. The steel and glass structure rests on this arch.

The inner pane of the laminated safety glass and a PVB film provide sound reduction and enhanced safety since the film material retains any fragments of broken glass in their position. The outer panes of toughened glass are impact-resistant to withstand rain and snow loads. The sound reduction measure achieves the noise reduction requirement of $R_w = 39$ dB.



U-Tower Dortmund, Germany

THE PROJECT

The former granary of the Union Brewery, known as Dortmund U, is a city landmark. As a typical example of Dortmund's industrial history, the building is a protected historic monument. This fact had to be taken into account when the building, so steeped in history, was to be converted into an art and cultural centre. One particular challenge was the need to comply with the specifications for fire protection, burglar resistance and the provision of escape routes via windows and facades without impairing the historic character of the structure.

THE ARCHITECTS

Gerber Architects in cooperation with Gernot Schulz Architecture, Germany.

THE CHALLENGES

Fire protection, building in existing fabric, burglar resistance, aesthetics and design.

THE SOLUTION

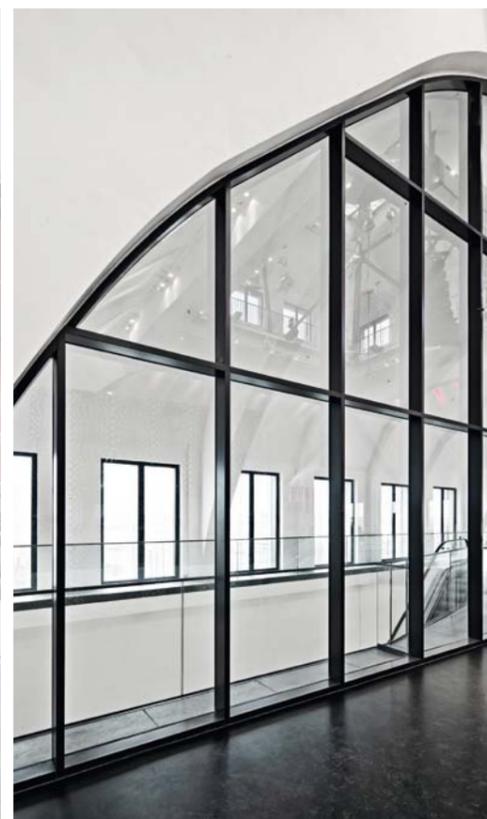
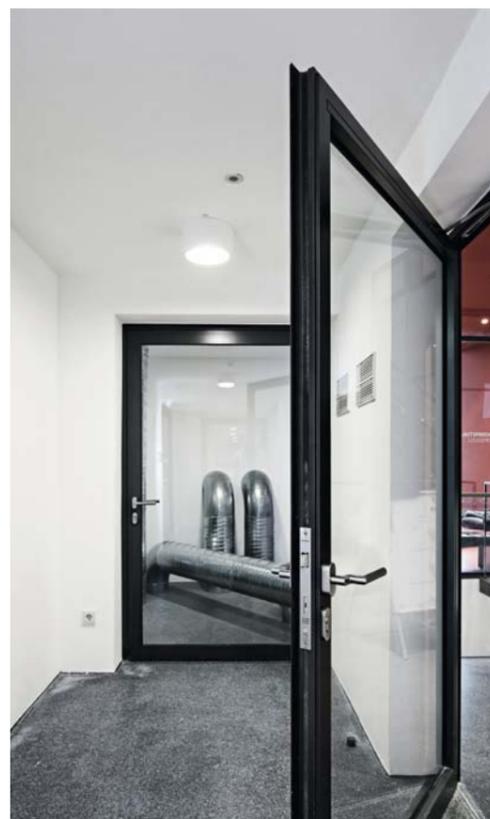
Window system, Janisol Primo: These slim-line steel systems support heavy loads and ensure that the windows, which measure 1.08 metres by 3.20 metres and are fitted at a height of 40 metres below the dome, are wind-resistant and preserve the appearance of these industrial windows dating back to the 1920s.

Fire protection system, Jansen-Economy G30: These fire-resistant window elements, which are fitted with lockable handles, were chosen as fenestration for the tower facades.

Inner glazing, Jansen-Economy 50 RS and 60 RS: The smoke-resistant interior partition wall of the "cathedral" with its big windows and filigree steel profiles gives the visitor an all-round view. The contour of the custom-built inner facade matches the curvature of the space and complies with sound reduction class III as well as fall-prevention requirements.

Door system, Janisol 2 and fire-resistant facade, VISS Fire: The 5.28 metre high partition element between the foyer and the stairwell has been built using the VISS Fire TV insulated, fire-resistant steel system for vertical glazing and is combined with Janisol 2 fire doors.

Facade system VISS I,tra: The facade has been significantly extended by the addition of new bays. For the glass facades, with a height of up to 10 metres, laser-welded loadbearing profiles in the VISS I,tra, series proved appropriate; they are suitable for facade structures that do not depend on girders.



Your ideas are our
inspiration.
You will be thrilled
by our solutions.
We design individual
solutions for you.
Together we create
unique buildings.





Jansen AG

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