



## Pharmacy Building, Hospital Worms

The building in Worms dates back to the 1970s and has a classic facade with curtain-wall metal panels.

The paint showed clear signs of chalking, which are typical for this type of surfaces. Moreover was the paint extremely faded caused by the weather. The overall impression of the facade showed that a renovation was needed.

Since the original colour scheme had to be retained, the typical colour "curry yellow" was specially adjusted. Within fifteen days **RENOLIT REFACE** was applied without any interruptions of the daily use of the building.

The unique character of the building could be maintained while giving the building a new and clean appearance.



Rely on it.



**Name of Project:** Renovation Pharmacy Building, Worms Hospital

**Product:** RENOLIT REFACE

**Colour:** Curry Yellow

**Facade:** Coated aluminium panels from the 1970s

**Surface Area:** 500m<sup>2</sup>

**Photographer:** Christian Buck, Heidelberg

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# REFERENCE PROJECT

## Facade Design

### Workshop, Hockenheim

The own company colours play an important role in the overall appearance of a company.

**RENOLIT REFACE** offers companies to adapt the facades of their own buildings with the specific corporate identity colour/s in an easy and quick application.

Thanks to the ability to customise colours and the possibility to plot films personalised solutions can be implemented easily. Despite weather and UV radiation it is warranted that the film and its colour fastness last at least 10 years.

The facade can then be used as a long-term advertising medium that supports the company's brand value in an exclusive and cost efficient way.



Rely on it.



**Name of Project:** Corporate Image Hockenheim

**Product:** RENOLIT REFACE

**Colour:** Seed Green, Blood Orange, Black (Corporate Colours)

**Facade:** Sheet Metal Panel, painted Pure White

**Surface Area:** 200 m<sup>2</sup>

**Photographer:** Christian Buck, Heidelberg

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## Office Block, Wolfsburg

The original colour scheme with a mint-green facade no longer really fitted to the new corporate strategy of the main tenant of an office block in Wolfsburg.

A modern and contemporary appearance was called for. The white facade film which was used has an excellent opacity. Therefore it was possible to apply **RENOLIT REFACE** straight over the existing mint-green surface.

The embossed film with a satin finish created a superb and smooth overall effect with the result that the facade again became the most striking feature of the building, a place that presents the unique character of the building and the people in it.



Rely on it.



**Name of Project:** Change of colour for Wolfsburg office block

**Product:** **RENOLIT REFACE**

**Colour:** Signal White

**Facade:** Coated aluminum facade from 2004

**Surface Area:** 525m<sup>2</sup>

**Photographer:** Christian Buck, Heidelberg

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## REFERENCE PROJECT

### Facade Design

### Office Building, Son/Eindhoven

The facade of the office building in Son/Eindhoven in the Netherlands had to be cleaned more and more frequently. This became increasingly time-consuming and expensive.

With this information in mind, the owner decided for a renovation. It was important to retain the colour, as well as keeping the renovation costs as low as possible. Furthermore, the cleaning costs should have been substantially reduced after the renovation.

This resulted in the decision to use the self-adhesive renovation film **RENOLIT REFACE**, which is offered with a 10-year manufacturer's guarantee.

The wide range of colours included the necessary shade of grey. Today, the panels of the building look like just mounted and give a modern appearance. Far less cleaning than before is needed.



Rely on it.



**Name of Project:** Facade Design Office Building Eindhoven

**Product:** **RENOLIT REFACE**

**Colour:** 7042 Traffic Grey

**Facade:** Coated and curtain-wall aluminium facade from the 1990s

**Surface Area:** 500m<sup>2</sup>

**Photographer:** Christian Buck, Heidelberg

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## REFERENCE PROJECT

### Facade Renovation

#### Car Dealership, Hunzenschwil

Auto German AG, which was founded in 1932 is one of the most traditional garage operations in the Swiss canton Aargau.

The facade of the company building should have been adapted to the new Opel colour concept without any major disturbance of the operating procedure. By searching for the ideal solution, the car dealership became aware of Richnerstutz, a certified processor of **RENOLIT**.

The self-adhesive renovation film, **RENOLIT REFACE** was suitable for a quick and easy renovation of the building.

The new and classy facade does not only enhance the status of the building now, but moreover the status of its surroundings.





**Name of Project:** Facade Renovation Car Dealership Hunzenschwil

**Product:** **RENOLIT REFACE**

**Colour:** Slate Grey 7015

**Facade:** Mix facade out of painted aluminium panels and glass in a  
Mullion-transom construction out of unpainted metal from the 1970s

**Surface Area:** 120m<sup>2</sup>

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## REFERENCE PROJECT

### Facade Design

#### Office Block, Ratingen

An office block, finding its architectural twin after 20 years.

While the entire facade of the new building was kept in a muted anthracite, posts and beams of the existing building were executed in a natural silver aluminum shade. Furthermore the old building showed colour changes and appeared spotty over the years. This made a renovation was advisable.

**RENOLIT REFACE** offered the ideal solution in terms of cost advantages and preparation work because buildings usually have to be grinded, primed and masked to repaint them. Elements that are covered with the self-adhesive film simply have to be cleaned in advance. Furthermore, **RENOLIT** offers a 10-year warranty, which clarifies its reliability.



Rely on it.



**Name of Project:** Facade Design for Ratingen Office Block

**Product:** **RENOLIT REFACE**

**Colour:** Anthracite Metallic

**Facade:** Mullion– transom metal facade from the 1990s

**Surface Area:** 400m<sup>2</sup>

**Photographer:** Christian Buck, Heidelberg

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## REFERENCE PROJECT

### Facade Design

### YOOMA Hotel, Paris

Close to the Eiffel Tower in Paris, the new hotel "YOOMA" opened in 2017. The architects in charge decided to use the high-performance film **RENOLIT REFACE** to give the facade and the representative interior a new high-quality appearance. Colour requests of the designer could be implemented without any difficulty because of the individual colour adjustment.

The modern premium film emphasises the creative character of the hotel building. "All in all, it couldn't have worked out better", says project leader Claudia Karouaschan.

"The colour of the high-performance film and the satin-matt surface are just as we imagined it. **RENOLIT REFACE** gives the building an innovative and stylish look, fitting perfectly with the new YOOMA hotel."



Rely on it.



© Sébastien Veronese

**Name of Project:** Facade Design YOOMA-Hotel Paris

**Product:** **RENOLIT REFACE**

**Facade:** Anodized aluminium panels (outside section),  
MDF-fibreboard (interior)

**Colour:** Alpine Blue, Signal White, Jet Black

**Surface Area:** 750 m<sup>2</sup>

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## The Requirements

The YOOMA hotel in Paris has been renovated completely in the interior as well as on the outer facade. As part of the renovation the hotel should also be redesigned.

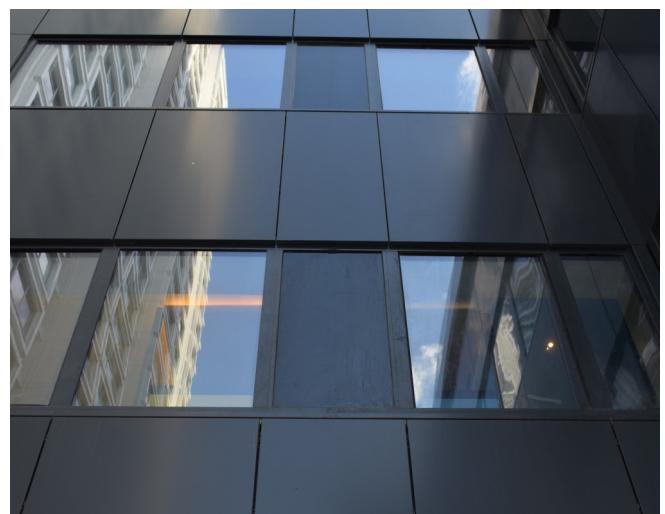
The **RENOLIT REFACE** film should be adhered to subareas of the facade in the colours signal white, jet black and alpine blue.

The challenge with this object was that the black and white stripes had to be exactly 8.7 cm wide, as this is the trademark of the concept artist Daniel Buren, who was involved in the artistic design of the YOOMA hotel. Due to the small width of the individual strips and the size of the facade panels and their edge areas, it was obvious that the film could not be adhered to the panel overlapping. At least 5 cm are necessary for overlapping, which is not possible with a 8.7 cm stripe width.

In order to secure the surface appearance and the artistic design, a new way of bonding for **RENOLIT REFACE** had to be tested.



Renovated facade before the application with REFACE



Facade before the application in the colours signal white, jet black and alpine blue



Rely on it.



## The Solution

After extensive testings and optimisations, the **RENOLIT** engineers gave the approval for a joint-to-joint bonding at the YOOMA Hotel.

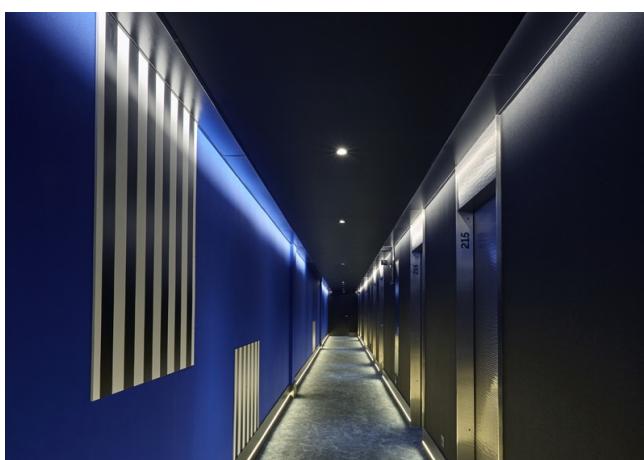
Instead of overlapping the film, both films are fitted together precisely. In order to be able to bond the black and white film strips exactly joint-to-joint without any gap it was imperative that the edges of the film strips were cut straight. Since this was not possible to do that by hand on site, the film was cut at the **RENOLIT** factory in Worms on a precision cutting machine into exactly 8.7 cm wide strips with perfect edges. In order to adhere the strips around peripheral edges of the anodised aluminum surface a primer was applied over the whole area for better adhesion. Thus, the long-term adhesion of the film is guaranteed even in a difficult place.

The **RENOLIT** REFACE film met the requirement of the owner of the hotel Mr. Beckerich, and the conceptual artist Mr. Daniel Buren, which such great enthusiasm that **RENOLIT** also received the order to coat the MDF panels in the lobby and in the hotel corridors with the black and white stripes.

Mr. Beckerich is so satisfied with the final result that he will, with complete confidence in **RENOLIT**, recommend the facade solution **RENOLIT** REFACE.



Panel with Daniel Buren's typical 8.7 cm wide stripes



Hotel corridor and exterior facade with **RENOLIT** REFACE



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## REFERENCE PROJECT

### Facade Design

#### Kiosk Shepards Bush, London

Shepards Bush is an inner-city district located in London. The Transport for London (TfL)- bus station connects a huge amount of commuters every day with the other parts of London.

The ticket office itself was looking past its prime thanks to vandalism and repeated graffiti attacks.

Instead of managing the constant disruption and cost that would be caused by repeated painting or grinding the existing panel finish, TfL decided to use **RENOLIT REFACE**, an applied film that's simple and disruption free to install.

**RENOLIT REFACE** gives the ticket office a new superb and attractive finish, which is easy to clean due to its special characteristics. Moreover it reduces the maintenance costs significantly.



Rely on it.



**Name of Project:** Facade Building Kiosk Shepards Bush London

**Product:** RENOLIT REFACE

**Colour:** Alu Brush Optic

**Facade:** Stainless steel facade

**Surface Area:** 25 m<sup>2</sup>

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## REFERENCE PROJECT

### Façade Design

#### Office Building, Tiel

The outdated office building in Tiel was supposed to be renovated. The aluminium facade showed clear signs of pollution because of weather influences and contaminations carried through the air. The director of Foil Solutions (certified subcontractor for REFACE in NL), Frans Tissen, advised the building owner to use the high-performance film from **RENOLIT** in Worms.

The processor presented a reference object which had already been coated with **RENOLIT** REFACE to show the owner so that he could convince himself of the quality of REFACE films.

Despite the visual appearance of the surface of the film, the customer was mainly convinced because of the reduced susceptibility of dirt on the facade.

Because a part of the building had to be coated overhead and the stiffness of the film was a big advantage. The air ducts inside the adhesive ensured a bubble-free processing.



Rely on it.



**Name of Project:** Facade Design for Office Building Tiel

**Product:** **RENOLIT REFACE**

**Colour:** Pure White 9010

**Facade:** Aluminum facade

**Surface Area:** 1.400m<sup>2</sup>

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## Sports Hall Falkenried, Elementary School Lübeck

A sport theme should improve the facade of the sports hall in Lübeck and provide a new and dynamic appearance.

For the implementation of the project the architects in charge decided to use the high performance film **RENOLIT REFACE**. The determining factors that have been considered were the durability and the weather-resistance of the film.

Thanks to the ability to plot the film the client's requests could be transposed ideally.

**RENOLIT REFACE** shows that through a flexible and multifunctional application, projects like Lübeck can be realised to complete satisfaction of all parties.





**Name of Project:** Facade Design Sports Hall Lübeck

**Product:** RENOLIT REFACE

**Facade:** New installed HPL-panels

**Colour:** Pure White 9010

**Surface Area:** Athlete-logos

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## The Requirements

The Falkenried elementary school in Lübeck was covered with new HPL panels and should be embellished on the front facade with four additional sports motifs.

For the first time only selected motifs should be adhered and not the whole panels. Apart from the weathering resistance and the longevity, **RENOLIT REFACE** is also plotterable so the motifs should not become a problem.

The vector graphics of the motifs provided by the customer were read out by the computer-controlled plotter and the information was transmitted to the cutting knife. Only the film itself was cut, but not the release liner on the back.

In the end, only the motif remained on the liner. This was covered with a transfer film, which carried a slightly adhesive coat so that the plotted motif could be kept in shape during the application.

The difficulty within this object was not to plot the film - it was the surface protection of the installed HPL panels. While **RENOLIT REFACE** has excellent adhesion on coated or uncoated metal facades the chemical composition of the HPL surface reduces the adhesion of the REFACE film. To meet the 10-year warranty, the **RENOLIT REFACE** team had to come up with a permanent solution.



Facade with new installed HPL-panels



Vector graphics with sport motives



Rely on it.



## The Solution

In order to achieve the necessary adhesion, the HPL surface needed to be grinded and then treated with a **RENOLIT**-recommended primer.

Since the sports motifs were very detailed, the grinding turned out to be difficult. To exactly grind and prime the entire motif-surface without damaging the surface of the remaining facade, it was decided to perform two plotting operations.

The first step was a negative plot with the removed motif. This was applied to the facade. Thus, the processors knew exactly where they had to grind and prime. After sufficient airing time of the primer, the positive plot was inserted and applied into the section of the associated negative plots. Subsequently, the transfer paper and the negative plot were removed again from the facade.

Decisive for this object apart from the plot-capability of the film was the permanent adhesion on the HPL-surface.

The solution "grinding and priming" of the facade represents a long-term solution and guarantees the liability of **RENOLIT** REFACE for at least 10 years. Furthermore, working with the negative plot ensured that the surface of the areas of the facade panels which were not grinded remained undamaged.



Detail cutout



Facade with negative plot



Finished facade with plotted sport motifs

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## REFERENCE PROJECT

### Facade Renovation

#### Office Building, Berlin

Wilmersdorfer Street is the most popular shopping street in Berlin. While in the past, the street was famous for its unique charm, today mostly dismal building facades shape the appearance of the street.

The corner house in Wilmersdorfer Street was renovated for a reasonable price with a great visual impact thanks to the self-adhesive renovation film **RENOLIT REFACE**.

The main focus was put on the choice of colour for the foil. Since the building lacked modern spirit and an up-to-date design, the owner decided for the three colours anthracite grey, light grey and traffic grey.

Today, the building once again is an eye-catcher of the capital's shopping street.

**Before**



**After**



Rely on it.



**Name of Project:** Office Building Berlin

**Product:** **RENOLIT REFACE**

**Colour:** Anthracite Grey, Light Grey, Traffic Grey

**Facade:** Metal facade from the 1980s

**Surface Area:** 850m<sup>2</sup>

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## The Requirements

The building in Wilmersdorfer Street had lost its bright appearance over the years and needed to be renovated to visually fit into the contemporary street picture next to the recently built shopping mall on the opposite side of the street.

The problem regarding this object was the cleaning and refurbishment of the facade panels before the application of the film. Over the years, many smaller and larger drill holes on the facade were created due to changing advertising signs and scaffold anchor holes. Furthermore, many of the panels were dented and leaking silicone seals needed to be removed.

Apart from that, the facade was covered with a layer of dirt and several panels showed strong rust formation.

The holes were sealed with a 2-component sealing compound and the surface was grinded afterwards. After having finished the cleaning, the biggest concerns were dispelled. Now only the wish of the building owner with regard to the multi-colour lamination of each individual panel had to be followed.



Old and outdated facade



Rust formation on the facade



Drill holes of old advertising signs

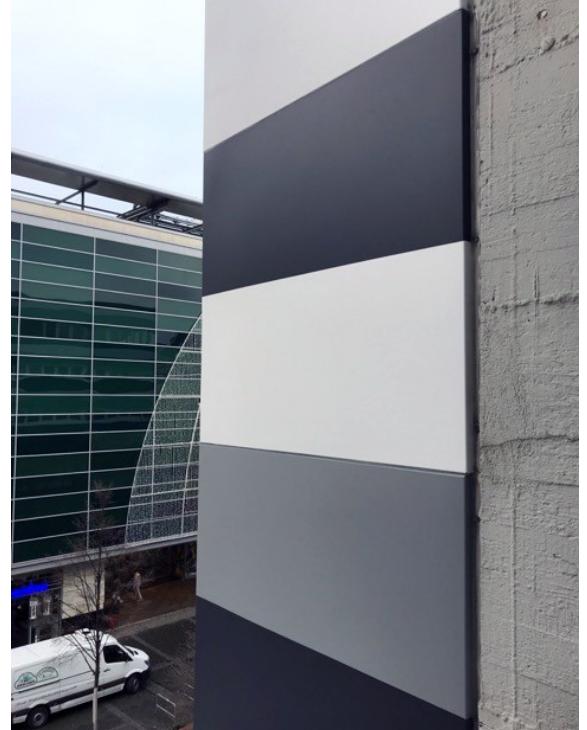


## The Solution

The panels should not as usually be coated in only one colour, but rather half in anthracite grey and signal white respectively in traffic grey and anthracite grey. Our certified application partner Mr. Andreas Norenz from "Norenz film systems", decided to use the so-called "wallpaper double trim". The advantage of this cutting technique is that there is no visible difference in thickness as it shows executing the overlapping bonding technique. In the case of an overlap, there would have been a minimal lap being visually perceptible which was not a practical solution for the customer.

The two films were overlapped and slightly fixed together. Afterwards a cut was performed within the overlap. The excess material of the upper and the lower film were removed and the remaining films then were fitted together precisely.

The advantage of **RENOLIT REFACE** film in comparison to other films is that the film does not show any shrinkage behavior. Thus it is guaranteed that even after several years no narrow gap between the joint edges will open up.



Detail cutout

A total of 850 m<sup>2</sup> of **RENOLIT REFACE** was professionally and quickly bonded, so that there were no complications due to temperature conditions. The construction site could be completed before the approaching winter.



New facade with the colours anthracite grey, signal white and traffic grey

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## The Elbspeicher, Hamburg

The historic Elbspeicher is a traditional Hanseatic brick stone building and old storage house. Built in 1897, the building is located in the Altona district of Hamburg.

The attached staircase, as well as the elevator tower, needed a revitalisation. The outer facade, consisting of 750 metal panels, has been coated on the front side, on the edges and partly on the reverse, using the high-performance film **RENOLIT REFACE**.

For the first time, the entire application was car-

ried out automatically, which saved time and cost. Pre-plotted film formats were applied to the individual panels using a laminator.

Not only has the film been used to recondition the exterior, but also to modernise the staircase, window frames, elevator doors and a system of mullion and transom on each floor of the stairway.

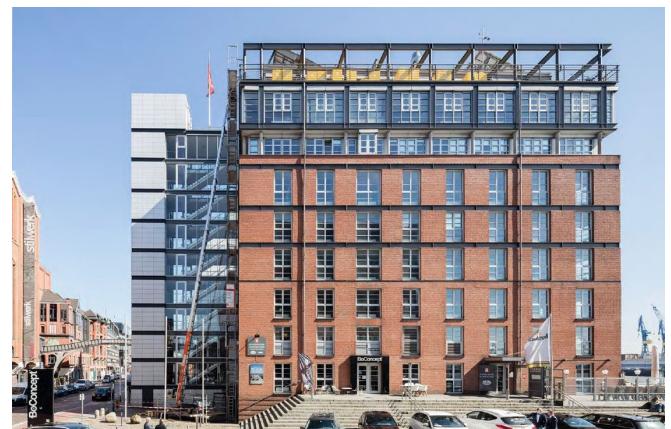
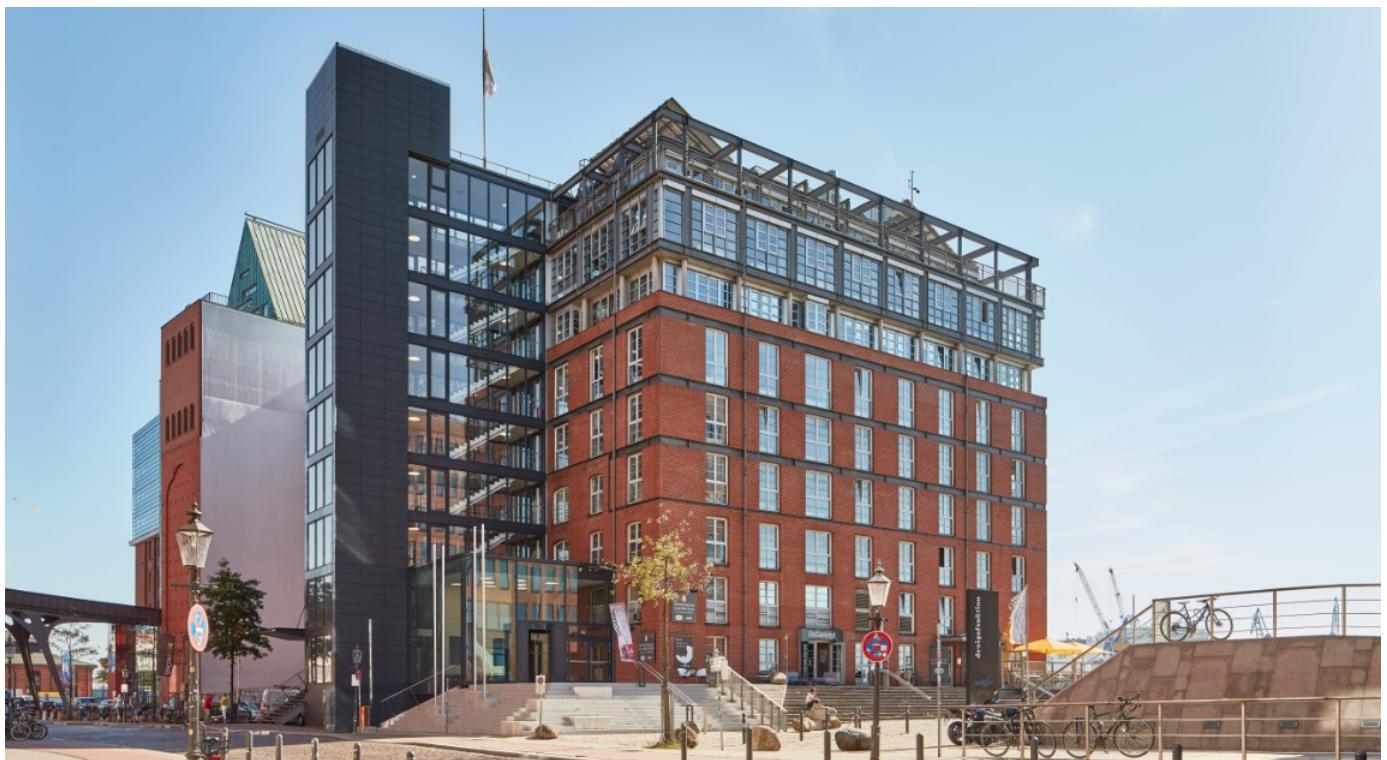
The high-quality film **RENOLIT REFACE** gives the Hamburgian landmark a new and modern look. Moreover, the revitalisation resulted in the old storage house being fully leased.



Before



After



**Name of Project:** Elbspeicher Hamburg

**Product:** RENOLIT REFACE

**Colour:** Anthracite Grey 7016

**Facade:** Aluminium-Facade-Discs

**Surface Area:** 1000 m<sup>2</sup>

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## The Requirements

The exterior facade of the elevator tower was covered with aluminum panels, each fixed with four or six stainless steel screws. The mullion-transom construction of the staircase was coated in the same colour.

Integrated in the outside facade, ten u-shaped steel girders were installed horizontally around the elevator tower. They could not be coated due to their uneven surface. The customer decided that we should line the carriers with new, rectangular panels to achieve an overall consistent, uninterrupted image. During a trial application of the front side of the panels it turned out that the aluminium edges of the 2 mm thick panel were visible and bothering for the intended homogeneous appearance of the tower.

This effect should be avoided. It required an approx. 5 cm wide cover to the reverse of the panel in order to achieve sufficient adhesion on the edge area.

Since the panels had to be dismantled because of the edge- and reverse covering, the construction management decided to exchange the internal insulation for a stronger version. The new insulation material was thicker and it would no longer be possible to adequately ventilate the curtain wall. The panels therefore had to be mounted at a greater distance from the substructure than before.

The mullion-transom construction of the staircase should also be covered in REFACE on the inside and outside.



Before and after comparison of the facade construction



## The Solution

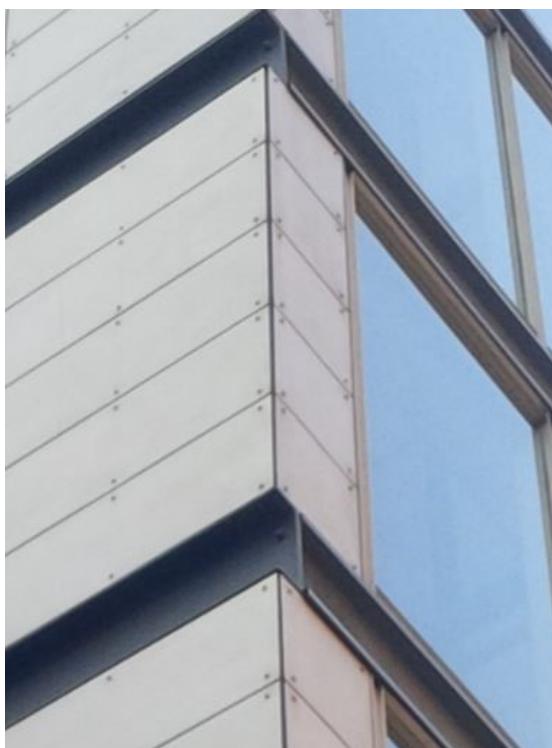
The 750 panels were numbered during the disassembly to ensure that they later on will regain their old former place. It was decided to do the coating in the building of our application partner in Worms. The REFACE film was plotted into the required formats and after an adaptation of an existing laminator it was possible for the first time to apply the film to the substrate by the machine, which saved a lot of time. The edge wrapping was done manually.

In the meantime a metalworker had provided the covers for the U-grinders , so that the assembly of the additional film- coated panels was possible smoothly.

In order to achieve the larger distance to the existing substructure, which became necessary because of the new insulation, the stainless steel screws were replaced by new ones, which were not only longer but also a thread size stronger.

In order to keep the panels firmly in place, plastic spacer sleeves were installed in between the substructure and the panel back. To prevent the film from twisting when tightening the screw, a plastic washer was placed under the screw head. In the areas of the building corners, the panels were originally mounted joint to joint. Due to the larger distance a gap occurred. To counteract this problem a corner rail painted in the panel colour was installed.

The mullion-transom construction of the window area as well as the elevator doors were also completely coated with our REFACE facade film, so that the entire exterior and interior facade has a new, modern look in RAL 7016 .



Facade with built-in corner rail before and after application

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