HMG iNFRA
AUTHORIZED PARTNER of
Hammerglass

NOISE BARRIERS.

A SILENT HAMMERGLASS JOURNEY ON THE CONTINENTAL LINE IN MALMÖ.

PROJECT: THE CONTINENTAL LINE

THE CONTRACT: Delivery and installation of noise reducing constructions consisting of 12 mm Hammerglass with steel structure, quality up to EXC-3, for 13 bridges and 2 stations in total within the Malmö urban area. The noise reducing constructions in the Rosengård and Persborg stations are provided with sound absorbers, the Rosengård station also has a complete roof structure.

CLIENT: Mark & Energibyggarna, BCA.

CONTRACTING AUTHORITY: The Swedish Transport Administration.

SCHEDULE: The project was executed between 2018 and 2021.

SCREEN SYSTEMS

The following Hammerglass systems were used:

GROUND-2

Complete CE-marked system for installation in bolt groups in the ground or on walls along roads or railways.

BRIDGE-3

Complete CE-marked system for installation on the outer side of the edge beam of a road or railway bridge. Can be delivered in heights of up to 6 metres.

THE ADVANTAGES OF HAMMERGLASS

Hammerglass weighs approximately half as much as regular safety glass which facilitates the installation, as the whole structure weighs less.

As Hammerglass does not break, the carbon footprint is reduced directly by reducing the need of manufacturing new screens.

Over time, a durable noise screen also avoids complicated and costly traffic closures that are necessary for each replacement of screens.

Noise barriers by Hammerglass are transparent and provide an unhindered view of everything and everyone on the other side. This contributes to the sense of safety.

Did you know that...

Hammerglass does not yellow over time, unlike several other materials?

Did you know that...

the coating of Hammerglass makes graffiti removal easy?

STOCKHOLMSVÄGEN

Installing a noise barrier above a motorway has its challenges.

Traffic closure on a motorway is never a popular move, and the work has to be done at night and partially over weekends. The resulting barrier above Stockholmsvägen fully met the client's requirements in all aspects and the installation of the noise screen went smoothly.

SCREEN SPECIFICATIONS

MODEL: One-sided

HEIGHT: 2 metres

LENGTH: 80 metres

Did you know that...

Hammerglass is not as easily scratched as e.g. acrylic and uncoated polycarbonate?

LUNDAVÄGEN

Noise barriers must work in silence.

A noise barrier should blend into the background without dominating the view. It is there to contribute to the sense of comfort and safety and otherwise be as invisible as possible. Try to picture this view without a transparent screen. How little of the city skyline would remain visible. And how confined and blocked off everything would become.

SCREEN SPECIFICATIONS

MODEL: One-sided

HEIGHT: 2.2 metres

LENGTH: 53 metres

SÖDRA BULLTOFTAVÄGEN

Polycarbonate is becoming more and more popular in noise barriers along railways.

In 2021, the Finnish Transport Infrastructure Agency decided to ban acrylic in noise barriers for national bridges and roads, the reason being that acrylic poses a fire hazard. Polycarbonate does not burn, instead it self-extinguishes upon ignition, and Hammerglass with its unbreakable properties and its low weight is therefore an excellent choice.

SCREEN SPECIFICATIONS

MODEL: One-sided

HEIGHT: 2,2 metres

LENGTH: 34 metres

AMIRALSGATAN

Ensure that the CE marking of the screen includes the necessary product properties.

The rules concerning CE-marked noise barriers along roads are clear: Engineers and suppliers shall deliver in compliance with the current legislation, the required standard being EN 14388. The certification requirement does not apply to railways, so as a client, you need to carefully choose a CE marking that includes the specific properties necessary for a railway noise barrier.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 2.2 metres

LENGTH: 101 metres

THE ROSENGÅRD STATION

NOMINATED FOR “CONSTRUCTION OF THE YEAR 2020” BY THE SWEDISH CONSTRUCTION SECTOR MAGAZINE BYGGINDUSTRIN.

We are proud to have delivered 400 metres of complete weather barriers for the railway area: steel structures, roofs and noise reducing screen with noise absorber and decorative sheet metal panels. We were also involved in the creation of the much-appreciated ”plant walls” in the station area. Passengers can travel from Rosengård to Malmö C via Östervärn or to Hyllie via Persborg and Svågertorp – and beyond.

”THE CLIENT CHOSE THE MOST RESISTANT MATERIAL ON THE MARKET”

OUR TEAM DESCRIBES THE PROJECT AND THE FINAL RESULT:

– When the start of construction was decided, the schedule was tight, very tight. So there was little time and intensive planning was necessary in order to get everything done, both around the Rosengård station and for the rest of the contracts for noise protection of the bridges along the circular line of the Continental Line. We had to take both car traffic and train traffic into account and the situation was hectic in many ways but we managed to complete everything as desired. We got the chance to showcase our flexibility and our ability to keep a big project in this scale together, and we felt that both the Swedish Transport Administration and the City of Malmö were very satisfied.

– The station became very attractive, the various shades of yellow really brighten up the place and create a light, welcoming atmosphere. The plant walls contribute to an impression of light and life. And the glazed panels in the screen make the station feel safe, even at a late hour and alone.

What are the advantages of choosing Hammerglass for the local residents and for the client?

– The durable material does not break. And as it does not break, the place remains attractive and safe and the expenses for the environment and clean-up are reduced.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 2.2 metres

LENGTH: 101 metres


STATION
ROSENGÅRD

SAFE AND ATTRACTIVE TUNNELS.

Next to the Rosengård Station is the well-known Zlatan Tunnel – which is now protected with Hammerglass.

The works of art in the ”Zlatan Tunnel” are finally safe from vandals, secured behind Hammerglass. The pedestrian and bicycle tunnel is frequently used by local residents and feels a great deal safer now, without broken glass lying around and with proper illumination. Hammerglass makes pedestrian and bicycle tunnels in cities safe – a safety effort which makes a big difference for a pleasant environment.

Above the tunnel, there is a one-sided 10-metre-long noise barrier screen along the railway bridge, with the height of 3.6 metres.

THE PERSBORG STATION

A transparent noise barrier improves the sense of safety.

Many passengers used to regard the Persborg station as unsafe. Instead of planning a full-coverage screen which would have made the place feel even less safe, the City of Malmö chose a combination of transparent Hammerglass and sound absorbers. The residential area has now a safe station point for commuters and other passengers, with optimal noise reduction.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 3 metres

LENGTH: 150 metres

”I believe that tomorrow’s engineers are going to face big challenges in new infrastructure projects. New ideas from architects and designers in combination with expectations on durable design will place high demands on all stages. This is exciting!

KENNETH - ENGINEER AT HMG INFRA/HAMMERGLASS

Did you know that...

Hammerglass self-extinguishes in case of a fire?

YSTADVÄGEN

We qualify for Agenda 2030.

The objectives established by the government for Agenda 2030 state, among others, that Sweden should have a ”resilient” infrastructure. If there is something HMG iNFRA and Hammerglass can deliver, it’s resistance. We can resist wear, weather and wind, noise and unnecessary replacements. We keep our promises and we have our own goal of contributing to a safer community.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 2,5 metres

LENGTH: 109 metres

HINDBYVÄGEN

The height of a noise barrier must be carefully calculated.

Our noise reduction screens can be delivered in heights of up to 6 metres in order to achieve the best possible noise reduction based on the site and the surroundings. Furthermore, we provide the Hammerglass panels with 45-degree angled tops which contributes to improved reduction of low-frequency noise from trains.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 3.2 metres

LENGTH: 20 metres

Earthing is essential.

Our screens are equipped with earthing bars in order to prevent danger if an overhead contact line falls down

GRANVIKSVÄGEN

Adapted posts and attachment systems.

HMG iNFRA has an extensive portfolio of posts and attachment solutions adapted to the position and mounting of the screen. Include us in the dialogue as early as in the conceptual stage, our engineers will gladly devise drawings and suggestions for functional solutions for the site.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 3.2 metres

LENGTH: 14 metres

Did you know that...

Hammerglass is chemical-resistant and does not become cloudy after cleaning?

GULLVIKS PARKVÄG

A train will soon thunder past here. With the school just a short distance away.

Urban environment and noise are inseparable and the railway is essential but trains swishing by on their way to their destinations must not disturb the peace and quiet too much. Efficient noise reduction is a must, and when it is necessary, the noise reduction effect can be enhanced further by using Hammerfoam – our own sound absorber.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 3.2 metres

LENGTH: 25 metres

INRE RINGVÄGEN

An attractive result – looking neat for a long time.

Nanotechnology makes Hammerglass resistant to most chemicals which allows easy graffiti removal. Due to the smooth surface, dirt from exhaust gases, oil and asphalt will not adhere as easily as on regular glass. The expected service life of Hammerglass noise barrier screens is 40 years.

SCREEN SPECIFICATIONS

MODEL: Double-sided

HEIGHT: 2,5 metres

LENGTH: 160 metres

NYA AGNESFRIDSVÄGEN

Extraordinary durability.
Hammerglass contributes to durable infrastructures in Sweden, Norway and Finland, and our noise protection solutions have been installed in bridge railings and traffic separators, as well as along roads and railway lines.

SCREEN SPECIFICATIONS

MODEL: One-sided
HEIGHT: 2.5 metres
LENGTH: 54 metres

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