

COR-TEN[®]

A NATURAL BEAUTY

COR-TEN[®] steel is a licensed brand belonging to US Steel Corporation.

SSAB



Forsyning Helsingør

Architect: **Christensen & Co Architects** Location: **Helsingør, Denmark**
Completed: **2018** Photography: **Niels Nygaard**

IT'S

A natural beauty from the very beginning. Long lasting attraction, year after year, with practically zero need for maintenance. Use COR-TEN® steel to make your mark as an architect, and let it contribute to sustainability at the same time.

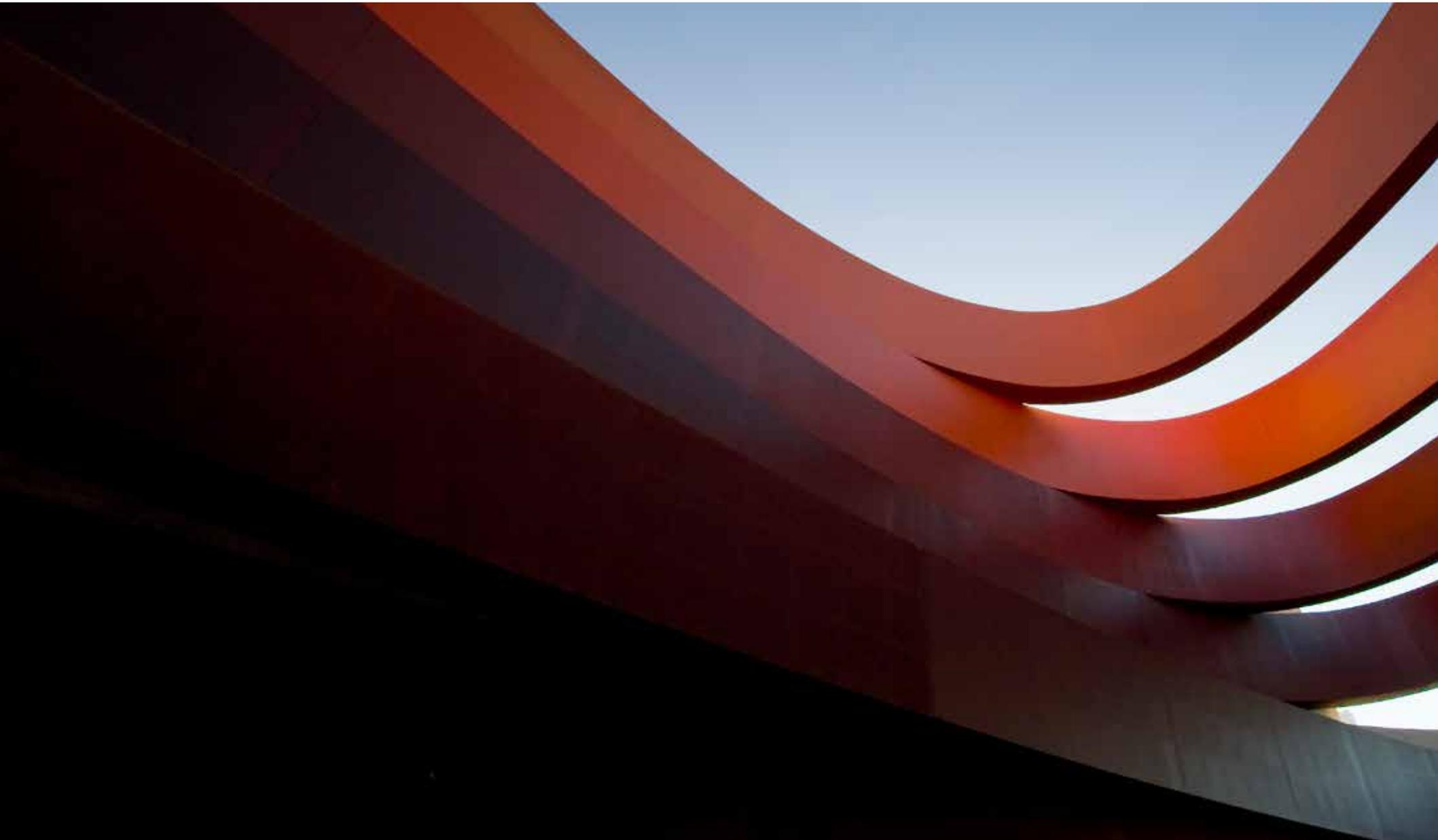
ONLY

NATURAL



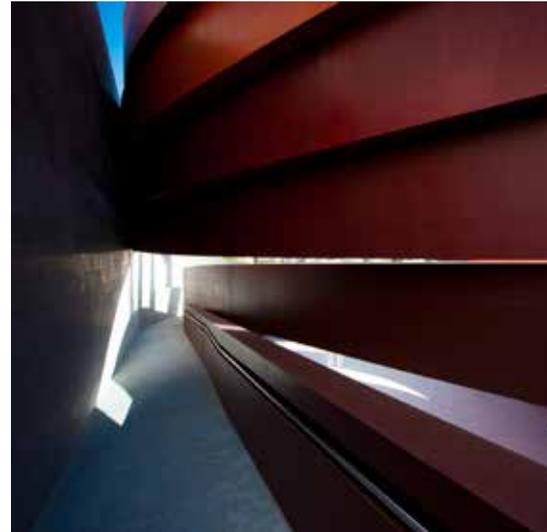
The Cube is the main feature of Helsingør Power Plant's new headquarters. It stands adjacent to the power plant with its vast and distinctive architecture. Clad in COR-TEN® panels it blends in and corresponds with the natural colours of its surroundings.

COR-TEN® was incorporated with sustainability as an important design factor. The steel is resilient and has low maintenance requirements. The concept is based on cradle to cradle principles focused on sustainable disposal in case of deconstruction.



Design Museum Holon

Architect: **Ron Arad Associates**
Location: **Tel Aviv, Israel** Completed: **2010**



COR-TEN® steel was bent and welded to create the dynamic curved shapes that stretch around the Design Museum Holon's galleries and encircle the open public space in the center.

The 300 tons of COR-TEN® bands were cut to size in Bergamo, Italy, and shipped in 12 m long sections to Israel. The total length of the bands is around 800 m, and the height of the bands varies between 1.2 and 2.4 m.

The bands are hollow 500 mm wide rectangular ducts, welded from 6.35 mm thick COR-TEN® plate. The structural stiffness of the segments is ensured by internal cross-ribbing. The longest unsupported band stretches for an impressive 300 m before touching ground.

Photography: Michael Castellana



COR-TEN® steel is a versatile material that gives you the freedom to truly express your vision as an architect.

APPLY

PATINA FORMATION PROCESS

At first, the steel begins to rust in the same fashion as ordinary steel when exposed to wet and dry conditions. However, as time passes, the rust layer transforms into a patina layer, and the color changes from fresh, newly developed orange-brown, to light or dark brown.

The speed of change and the final color of the steel depend on the atmospheric conditions of a site and the surrounding air quality. Sulfur dense atmospheres will speed up the oxidation process and result in a darker patina. Frequent cycles of wet and dry conditions will also speed up oxidation.

Studio Furillen

Architect: **AQ Arkitekter** Location: **Gotland, Sweden**
Completed: **2010** Photography: **Åke E:son Lindman**

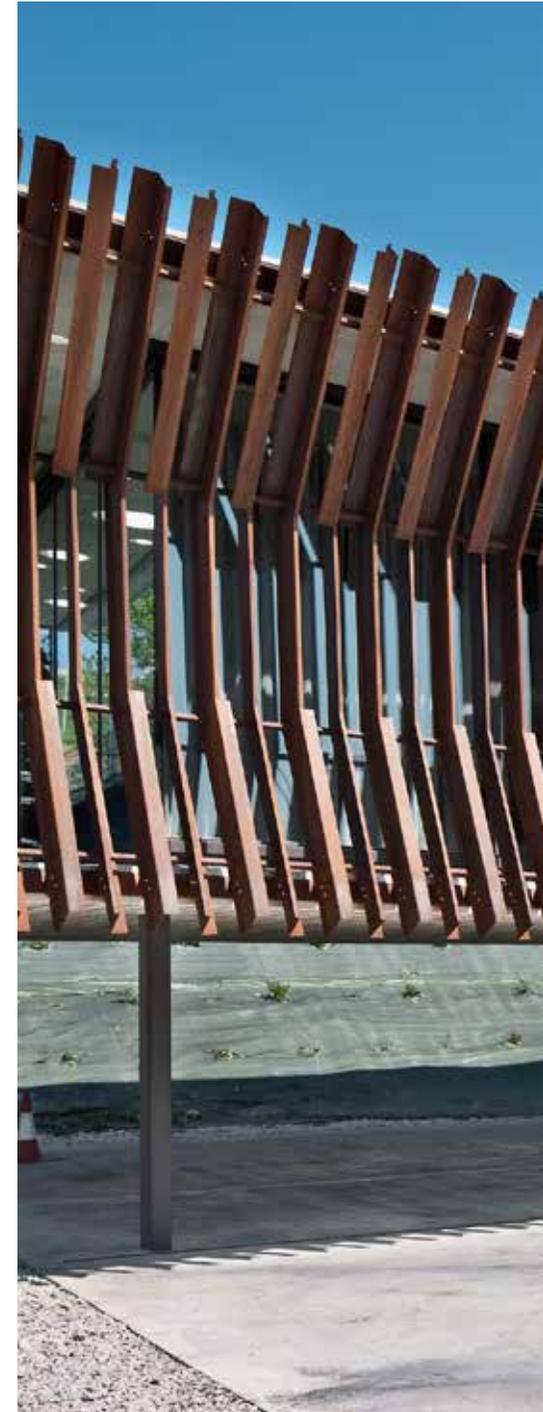
NATURE





The front of the Audenasa Headquarters is made up of vertical COR-TEN® strips stretching the entire length of the building. Each strip is welded from three individual COR-TEN® sheets that have a 90 degrees bend at the edge.

The strips are suspended at a distance from the building's glass wall and angled as to give ample shade from the sun.





Audenasa Headquarters

Architect: **Vaillo + Irigaray Architects** Location: **Noain, Spain**
Completed: **2009** Photography: **José Manuel Cutillas**

There are endless opportunities to bring a natural beauty to the environment it is located in. COR-TEN® steel is now becoming a trendsetting material in all aspects of architecture.

Architect: NAOM (Nouveaux Architects Of Marseille)



PERFORATING COR-TEN®

COR-TEN® steel plates can be perforated in any way you like. Round, square or rectangular holes, customized texts, logos and images, anything is possible. Backlighting the plates will accentuate your design further.

DESIGNING

UNIQUENESS



MIXING COR-TEN®

COR-TEN® steel lends itself perfectly to mixing with other building materials. Contrast the deep brown patina of COR-TEN® in any shape you like with glass, concrete, bricks or wood for a unique and eye-catching façade.

Architect: Feilden Clegg Bradley Studios



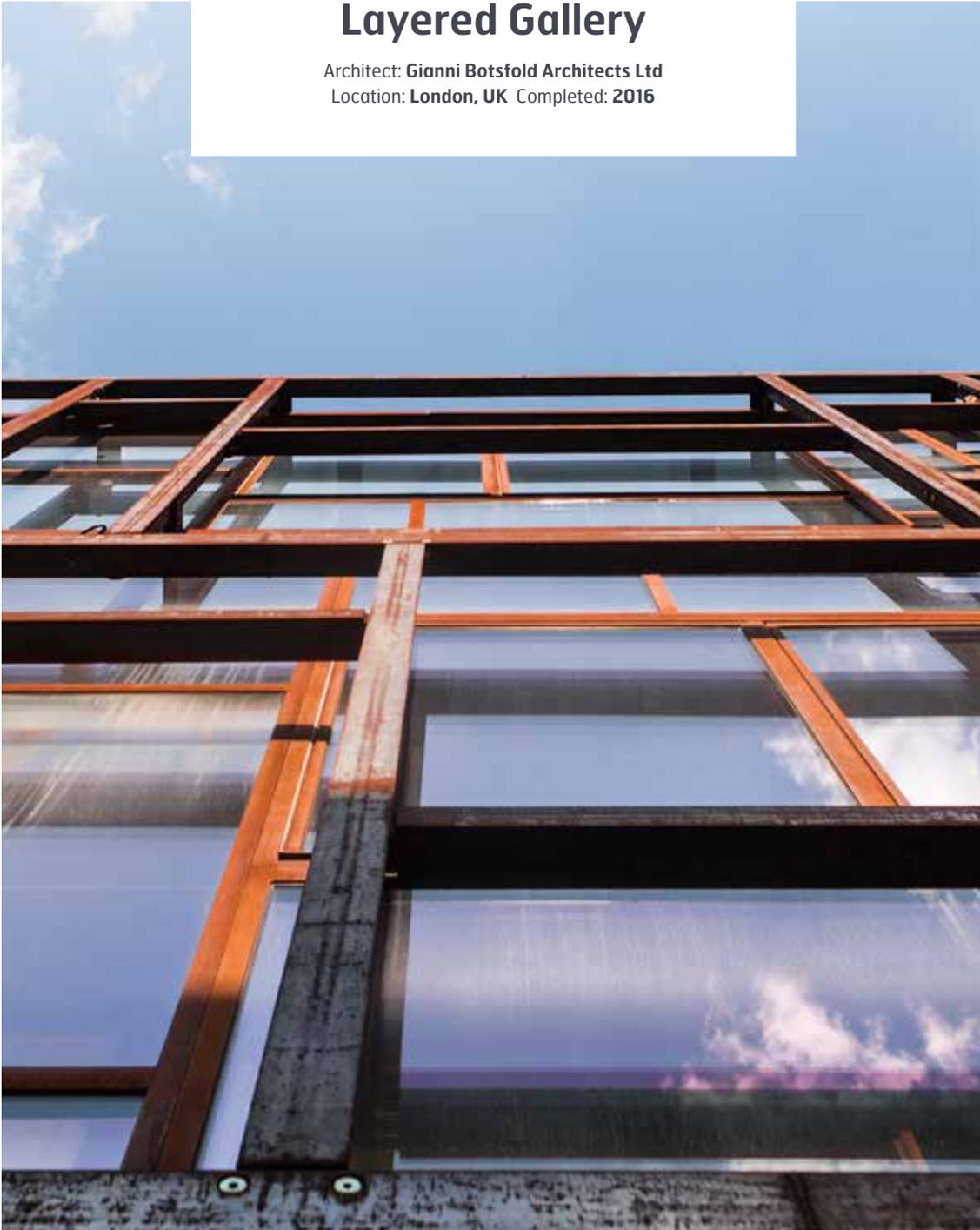
Architect: FEM architects

PROFILING COR-TEN®

With COR-TEN® steel it's easy to create a dynamic façade appearance. The shape of the steel is up to the architect's vision, allowing daylight to play with the shadows for an ever-changing look, with artificial lights adding life during dark hours.

Layered Gallery

Architect: **Gianni Botsfold Architects Ltd**
Location: **London, UK** Completed: **2016**



NATURE
WILL
THANK
YOU

The anti-corrosion properties of COR-TEN® steel eliminates the need for corrosion-prevention treatment or maintenance. This minimizes the product's lifecycle costs and, as an additional bonus, contributes to a low environmental footprint.

PRESENT YOUR VISION

We are collecting the best cases of architecture using COR-TEN® steel so that you can be truly inspired. To share your own project please visit:



www.ssab.com/products/brands/cor-ten

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SSAB is a Nordic and US-based steel company. SSAB offers value added products and services developed in close cooperation with its customers to create a stronger, lighter and more sustainable world. SSAB has employees in over 50 countries. SSAB has production facilities in Sweden, Finland and the US. SSAB is listed on Nasdaq Stockholm and has a secondary listing on Nasdaq Helsinki. www.ssab.com

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