

BUZZO SPINELLI architecture

-
2 rue Chénier 75006 Paris
Quai Nord 20169 Bonifacio

-
contact@buzzospinelli.com
www.buzzospinelli.com

THE ALDILONDA

Location : Bastia (2B)

Program : Creation of a walkway for pedestrians, disabled people, and cyclists circumventing the citadel and highlighting the site.

General contractor : Bastia's municipality

Project management: Buzzo Spinelli in partnership with Dietmar Feichtinger as architect representative
SBP, BET - structural engineers
BETEM, BET VRD - mechanical engineers
IN SITU - landscape design
OCEANIDE - hydrodynamics engineers

Cost: 8.700.000 € ex-Tax

Area: 450 linear meters

Schedule: Delivered in 2020

Description of the project :

The Aldilonda's promenade around Bastia's fortress consists of a walkway for pedestrians, disabled people, and cyclists circumventing the citadel. The creation of this scenic urban place enhances the site.

Unfolding like a suspended balcony over the water, the Aldidonda reminds us that Bastia belongs to the sea.

Unfortunately, the tunnel construction from last century had removed the strong link between the city and its seafront. Today's Aldilonda however, while connecting the city's north and south parts, reunited once more Bastia to its coast.

Below the Citadel and its ramparts listed as Historical Monuments, the pathway embraces the meandering of the coast, follows its contours and allows the pedestrians a direct contact with the rocky cliff.

Moreover, by slotting elegantly into the site and by enhancing this reunion, it becomes the project's main asset: in the sense that the walkway does not create a new place but rather makes those already there accessible to everyone.

Indeed, this wavy promenade along the maritime coast gives access to the rocky terraces which become in turn places of leisure and relaxation for swimmers and fishermen.

The promenade offers as well a sea view of the Citadel, as it winds around the Dragon north pier. It aims to preserve the rocky outcrop on the Ficaghjola cove's south side, since it acknowledges the saying of the city's residents that "jumping from the ramparts" is Bastia's identity.

And in order to protect this benefit and to ensure the full connection to the Citadel through the rocks, the promenade continues through a short gallery lit by a sculpted light well.

The program required that the intervention takes place above sea level without any vertical support in the water, consequently the Aldidonda hooked up to the rocks.

Concrete in the project :

The materiality of the project reflects the raw nature of the ramparts and the abrupt natural landscape.

The promenade unfolds at its full length in a succession of curved elements fitting in the ramparts. Suspended above the waves or seated on the rocks, it contrasts with them and reveals their sharp character.

BUZZO SPINELLI architecture

-
2 rue Chénier 75006 Paris
Quai Nord 20169 Bonifacio

-
contact@buzzospinelli.com
www.buzzospinelli.com

Designed as a structural piece of art, the concrete pathway is anchored in the millenary depths of the citadel through 25-meter horizontal piles piercing the rocky sides. The concrete elements hanging on the ramparts required extraordinary technical feats.

A blend of materiality aspects has been established as a vocabulary to dialogue with the rocks, the city and the dedicated use of the project: prefabricated concrete slabs, smooth concrete, rough concrete, and fair-faced concrete.

Prefabricated concrete slabs : enable a unique site-works methodology on a sensitive site, where the slabs are suspended 5 meters above water. Since the marine environment required a minimal 6 cm concrete cover around the steel rods, the technical control is preferably done in the factory.

Smooth concrete : the Corten-Steel railings oxidizing with the salty waters tint the smooth slabs' edges with rust. These vertical bright ochre color stripes blend perfectly in the orange shades of Bastia's coast. Indeed, the rocks are composed of cipolin and quartzite combined to oxidized ferrites.

Rough concrete : highlights the aggregates extracted from the site and incorporated in a finishing layer of cast on site concrete. This rough concrete brightens the promenade and inscribes it in the color-chart of Bastia's mineral nature. The surfacing effect suggests that the concrete has been eroded and polished by the salty chaos.

Fair-faced concrete : In the gallery, the wooden planks used as formwork have printed on the concrete skin the layers of its execution with the wood veining and its color traces. These lines blend with the horizon creating a dynamic frame and inviting the pedestrians to cross the gallery, a gallery whose walls awaken when the light ruffles its rough skin.

By its assertive mineral nature, the Aldilonda promises to bind itself durably to the rocks and ramparts. And even if the sea manages to tear away all its accessories leaving only its concrete core, the project would still remain there.

The prefabricated concrete is of 35 MPa specified cylinder characteristic strength, meeting durability requirements of tidal exposure zone with sulfate-resistant cement.

The choice of prefabrication for most technical parts allowed a better control of formwork and casting, and facilitated the works on site.

The in-situ cast concrete has a 50 MPa specified cylinder characteristic strength, it has been produced in a ready-mix concrete plant and meets durability requirements of tidal exposure zone using a special standard category of cement for marine structures. Its strength class higher than the minimum 35 MPa-class required by the standards allows for a higher resistance at early-age and subsequently earlier

formwork removal. Aggregate grading was optimized to obtain the highest possible compactness of the concrete granular skeleton.

-

Project Information

Category for your project [Flatwork]

Name of the project [Aldilonda promenade around Bastia fortress]

BUZZO SPINELLI architecture

-
2 rue Chénier 75006 Paris
Quai Nord 20169 Bonifacio

-
contact@buzzospinelli.com
www.buzzospinelli.com

Project quantities [450 linear meters]

Address: Citadelle, 20200 Bastia Corsica

Duration of the concrete works: 1 year

Completion of the structural works: 10 July 2020

Construction Team Members

Owner:

Name of the firm : [Mairie de Bastia]

Postal address [Avenue Pierre Giudicelli 20200 Bastia]

Phone number [0687950285]

Contact name : Jérôme Terrier

Email [j.terrier@bastia.corsica]

Architectural Firm (possibly several ones):

Name of the firm [Buzzo Spinelli Architecture]

Postal address [16, rue Grégoire de Tours 75006 Paris]

Phone number [0613435609]

Contact name [Jean-Philippe Spinelli]

Email [contact@buzzospinelli.com]

Name of the firm [Dietmar Feichtinger architectes]

Postal address [80, rue Edouard Vaillant 93100 Montreuil]

Phone number [0779828087]

Contact name [Arthur Royer]

Email [a.royer@feichtingerarchitectes.com]

Engineering Firm:

Name of the firm [SBP]

Postal address [25 Rue du Général Foy, 75008 Paris]

Phone number [0786712544]

Contact name [Simon Durand]

Email [s.durand@sbp.de]

General Contractor / Contracting Joint Venture / Contracting companies / Precast concrete companies:

Name of the firm : [SAS Antoniotti]

Postal address [Lieu-dit Pastreccia Erbajolo, 20600 Bastia]

Phone number [0685085816]

Contact name : Dominique Antoniotti

Email [d.antoniotti@gmail.com]

Name of the firm [NGE Fondations]

BUZZO SPINELLI architecture

-

2 rue Chénier 75006 Paris
Quai Nord 20169 Bonifacio

-

contact@buzzospinelli.com
www.buzzospinelli.com

Postal address [29 Rue des Tâches, 69800 Saint-Priest]

Phone number [0684111001]

Contact name [Dorian Fourier]

Email [dfourrier@ngefondations.fr]

Concrete Contractor:

Name of the firm [Lagarrigue]

Postal address [Place de la République, 12300 Firmi]

Phone number [0676683696]

Contact name [Cédric Litre]

Email [clitre@lagarrigue.fr]

Concrete Supplier:

Name of the firm [Comptoir des Bétons Corses]

Postal address [Lieu-dit, Suariccia, 20620 Biguglia]

Phone number [0495330065]

Contact name [Cédric Maurizi]

Email [cedric.maurizi@eurovia.com]