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FORT ST JEAN

For over 400 years, Fort Saint Jean has stood guard at the entrance to Marseille's Old Port. First constructed on the orders of Louis XIV in a bid to strengthen the city's defences, the site began its life as a historical monument in 1964 when it was handed over to the Ministry of Culture. It housed the department of underwater archaeological research until 2005, when work began to incorporate the Fort into the larger MuCEM complex.

INTERIORS

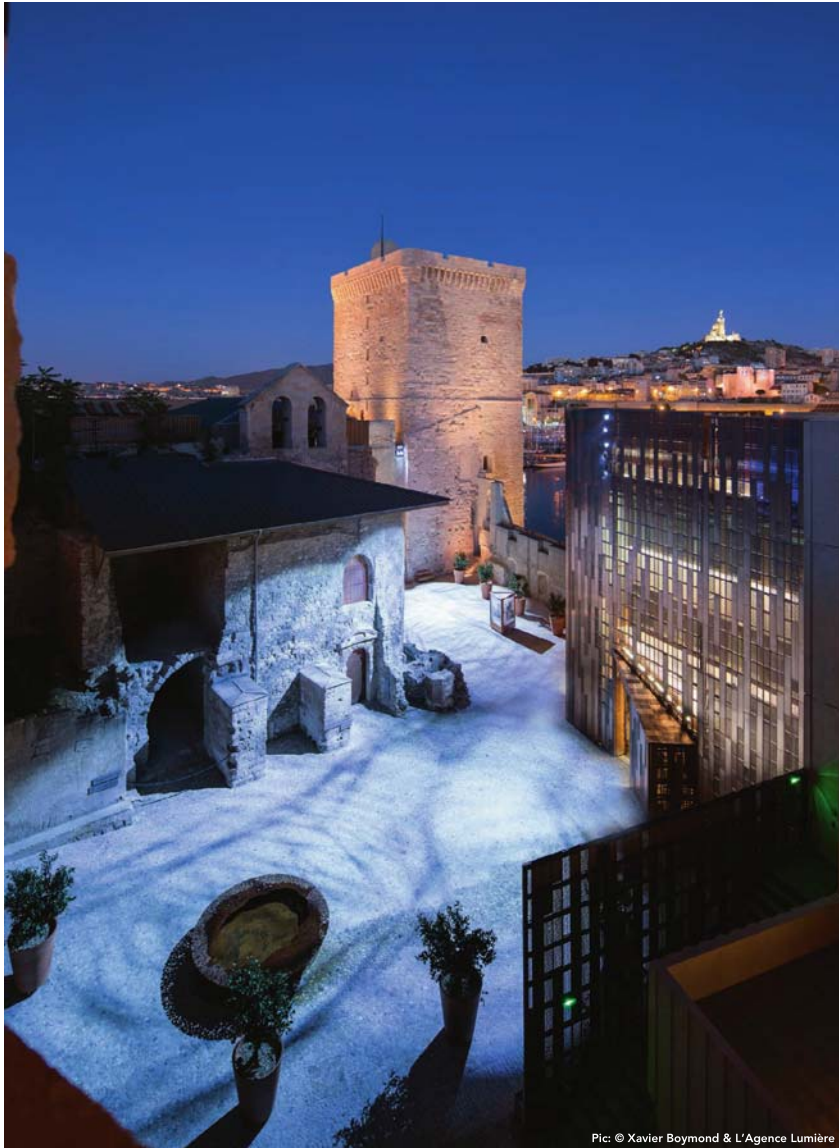
The architectural management of the Fort's interior spaces and accessibility requirements was handled by Roland Carta, alongside Rudy Ricciotti. Just under 1200sqm of exhibition space was created, allowing additional pieces from MuCEM's extensive collection to be displayed on a five-year

rotation. These galleries occupy the 'village' of buildings within the fort walls - specifically the Chapelle Saint-Jean, the Galerie des Officiers and buildings 'E' and 'G'. As with the J4 building, interior lighting was designed by 8'18". They specified a system of Erco Optec LED spots and Firalux micro-projectors for these gallery spaces. 8'18" also devised lighting for the I2MP and Georges Henri Rivière buildings. The former includes an entrance to the museum via the Old Port, as well as a conservation training centre, library and offices. Working with Roland Carta architects, the team integrated lighting into the furniture of the space, creating an appealing glow for visitors as they enter the lower courtyard. Inside the building's classrooms and library a simple system of 16mm fluorescent linear fixtures with louver optics are controlled by

a daylight sensor, while additional compact fluorescent downlights are triggered by motion sensors.

An exterior staircase runs up the outside of the building, concealed behind a perforated metal façade. The architects requested that 8'18" create a subtle play of light with this surface. To do this, they illuminated the stairways, allowing light to spill through the perforations. On the north façade, a strip of asymmetrical, directional LED is attached to the cladding's metal frame

The Georges Henri Rivière buildings houses a cookery workshop in its east wing and a museum bookshop in the western section, in addition to a central space for temporary exhibitions. Here, Erco Hi-trac incorporates a 54W fluorescent provides indirect lighting as well as a structure on which to mount lighting for temporary exhibitions.



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EXTERIORS

As an important part of the Fort Saint Jean redevelopment process, a new exterior lighting scheme was developed by L'Agence Lumière.

Their approach was threefold. Firstly, they focused on accentuating certain parts of the structure in order to reveal its historic character after nightfall. Secondly, they worked with landscape architects Agence APS, to illuminate a new Garden of Migrations - a botanical history of the Mediterranean Basin constructed within the walls of the Fort. As well as picking out selected foliage among the various flora, lighting draws visitors along a new footpath that runs through the Fort complex, linking via the Fort's two floating footbridges to the J4 and Le Panier district of the city. LED fixtures from LEC Lyon proved the mainstay of the lighting

fixtures on the Fort, providing a pallet of fixtures with the proven robustness required to endure the elements.

The final element of the scheme involved the addition of Martin Professional event lighting to create an almost fantastical dreamlike quality to the the footpaths and courtyards. As the sun sets, a hot white light slowly envelops the Fort. This then shifts imperceptibly towards a more blue-white that mimics bright moonlight. The intent here was to provide a sense of calm in which tourists and locals could enjoy an evening promenade.

Controlled by a Martin Pro M2GO control console, all exterior lighting remains active until 1am when, by law, it must be switched off.

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Far left top Event lighting on King René tower casts a dreamlike glow across the lower courtyard.

Far left below Walkways along the Fort walls and the façade of the Georges-Henri Rivière building illuminated by LEC Lyon Saint-Jean and Ligny fixtures.

Centre top and below The Georges-Henri Rivière building sits on the upper level of the fort. In ground luminaires mark a walkway through the Garden of Migrations.

Left Event lighting bathes the lower courtyard in a blueish white, evocative of bright moonlight. The I2MP building, to the right of the picture, is clad in a grillework façade, thrown into silhouette by internal lighting and asymmetrical, directional LED fixtures mounted on the support structure.

PROJECT DETAILS

Fort St Jean, Marseilles, France

Client: Ministry of Culture OPPIC (under the control of DRAC)
 Architect: Carta Associés
 Landscape architect: Agence APS
 Landscape Lighting Design: L'Agence Lumière
 Interior Lighting Design: 8'18"
 Museographer: Zen+dCo

LIGHTING SPECIFIED

Exterior Effects lighting:

70 x Martin Pro Exterior 400 Image Projector
 6 x Martin Pro Exterior 410 RGBW projector
 13 x Martin Pro Tripix Wash
 11 x Martin Pro Tripix 1200

Exterior Architectural Lighting

LEC Lyon 4040 Luminy 4 Spotlight - terraces
 LEC Lyon 5716 Allevard ground recessed spotlight - vegetation
 LEC Lyon 5635 Ligny lightbar - facade
 LEC Lyon 5760 Passy recessed fixture
 LEC Lyon 4330 St Jean recessed fixture - wall light for walkways
 LEC Lyon 4240 Havre - indirect lighting
 LEC Lyon 1750AC Bourgogne ground recessed marker-light - terrace banisters
 LEC Lyon 1843G Carquefou ground marker-light - walkways
 LEC Lyon 5640 School Light- handrail for stairs
 LEC Lyon 5620 Brunei submersible LED - fountain

Exterior Lighting Control

Martin Pro M2GO lighting control console
 M-PC console

Interior 'Village' museum lighting

Erco OPTEC LED spotlight Dali
 Firalux Occhioled RD 3.6W LED Micro-projector
 Firalux Occhioled Micro-projector
 Firalux Rubanled Double M aluminium profile LED ribbon

Interior Georges Henri Rivière building

Erco Hi-trac light structure incorporating a 54W fluorescent
 Erco Quintessence LED 21W recessed spotlights
 Artemide Castore pendant with spherical diffuser
 Sammode Niepce 40 tubular luminaires with 28W T5 fluorescents on stairways
 Formalighting 8114 and 8304 recessed 70W metal halide spotlights

Interior I2MP building

Regent No Limit 54W T5 fluorescent wall light
 Trilux Inperla recessed downlights and wall fluorescent 32W with rim cover
 Trilux 504 Series suspended linear fluorescents 28W T5 with low luminance louvre optics
 LEC Lyon LEC5640 6W LED luminaire
 Sylumis LED strip