ARCHITECTURAL WINDOWS AND DOORS SINCE 1894

CAPOFERRI

PROJECTS

Capoferri excels in project solutions - the more complicated and complex, the more efficient our ability to respond.

Founded as a wood workshop in Adrara San Martino back in 1894, it has grown over the past century in dimension, competence, technical resources, as well as ambition, to become the global player it is today.

Traditionally specialized in the design, engineering, and production of windows and doors - a segment which still represents our core business - over time we have distinguished ourselves through our capacity to carry out projects of any scale and genre, leading us to create our own Contract Division, dedicated to providing an all-embracing response to the requests of Architects and Designers.

Today the company is led by Sergio Capoferri and - representing the fifth generation in the company - his sons Paolo, Francesco and Luca, who have maintained the tradition of keeping the company at the forefront of technological advances, merging artisan craftsmanship with technological and organizational resources on an industrial scale.

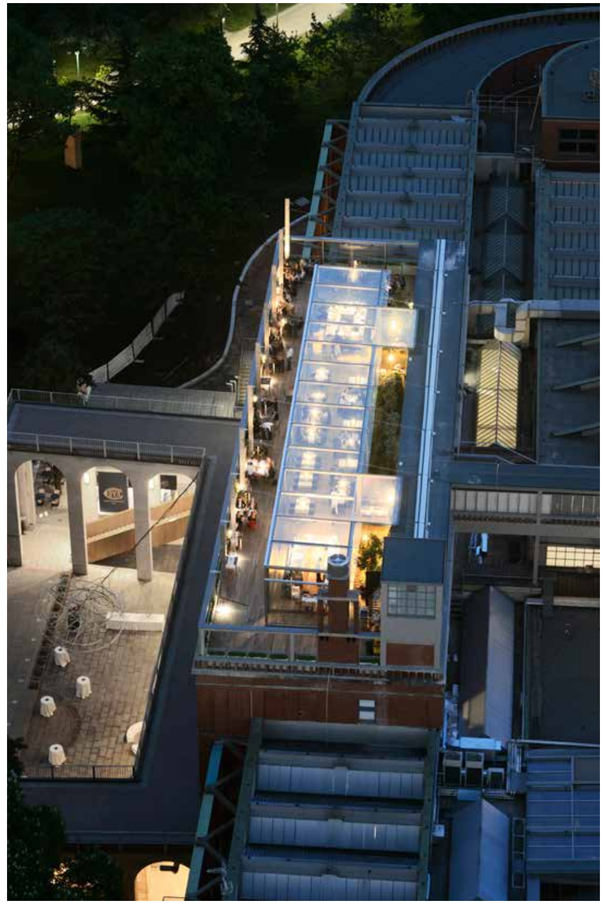
With projects on virtually every continent, Capoferri has proven their eclectic technical and dynamic nature collaborating with important international Architects such as Renzo Piano, Michele De Lucchi, David Chipperfield, Bohlin Cywniski Jackson and Antonio Citterio / Patricia Viel & Partners to name but a few.

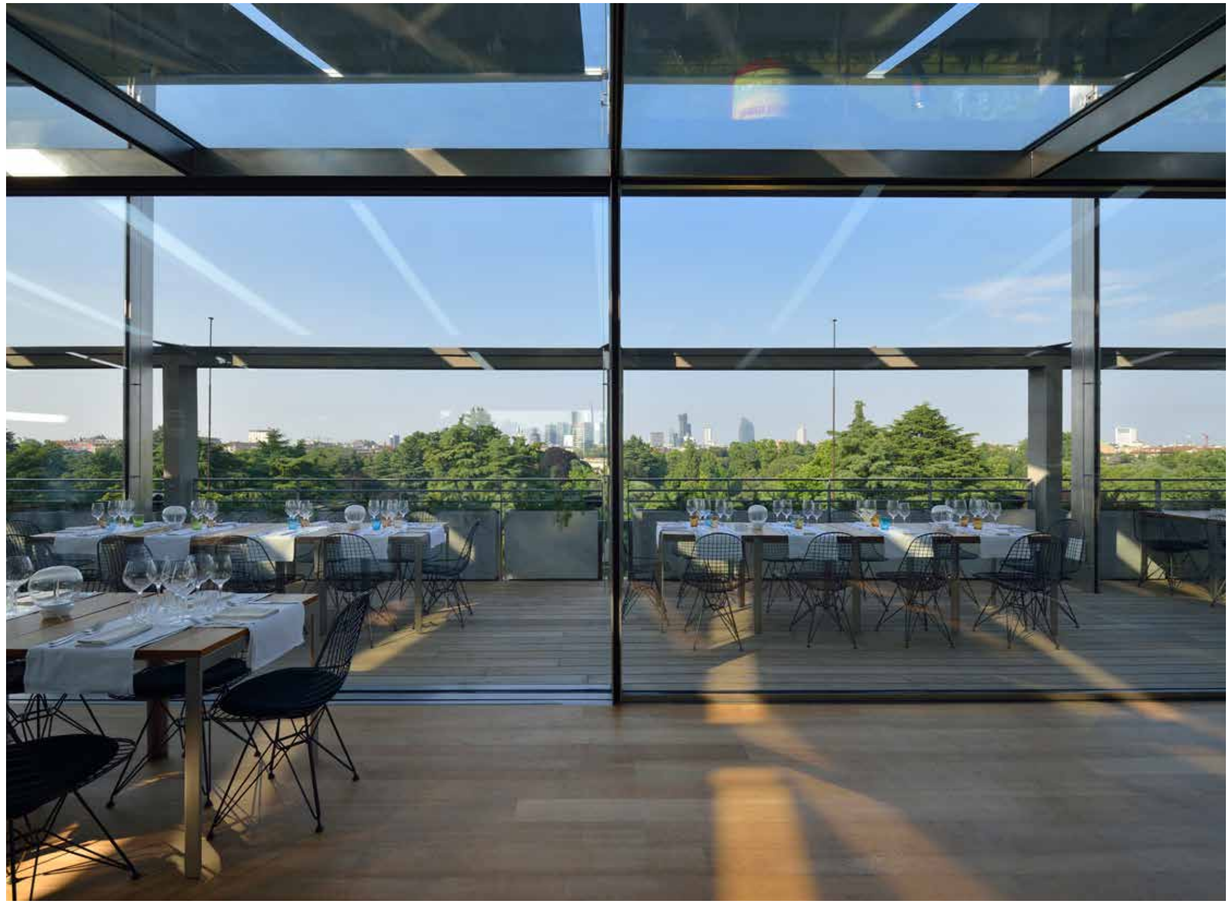
TERRAZZA TRIENNALE

Project by **OBR**
Client **Triennale di Milano Servizi**
Location **Milan, Italy**
Year **2015**

Note
Turn-key pavilion for bar and restaurant use, consisting of stainless steel lift&slide windows and fixed partitions as well as glazed roof and unique automated sliders moving perpendicularly from the main structure.

OBR's project for the restaurant on top of the panoramic terrace of the Triennale reveals technical characteristics that are as ambitious as the aesthetic and conceptual ones. Capoferri has developed new technical solutions to merge the technical performance with the project brief and coordinating all the subcontractors involved.
The pavilion consists of a glazed parallelepiped, 33 x 5 meters in plan and 3 meters in height, built from a light modular structure in stainless steel, which creates seven bays that follow the rhythmic pattern of the historic portals.
The glazed panels push the limits of technology to the extreme. Made from thermally broken profiles only 55mm deep, the mechanisms of the lift&slide panels are completely recessed into the structure. Thus, when the operable panels are closed, they blend in fully with the fixed panels.
The lift&slide panels on the shorter sides of the structure can be opened completely by moving away perpendicularly from the structure, running only on a recessed lower track without any visible upper guides; a truly innovative solution which has never been implemented before.
All components were designed to allow their assembly on site; the pavilion sits on the existing terrace without damaging its surface thanks to a floating floor in wood, with all technical connections running underneath.
The vertical panels as well as the slightly sloped glass roof are shielded by a sliding curtain of coated fabric, which can be used for projection of light and images at night.

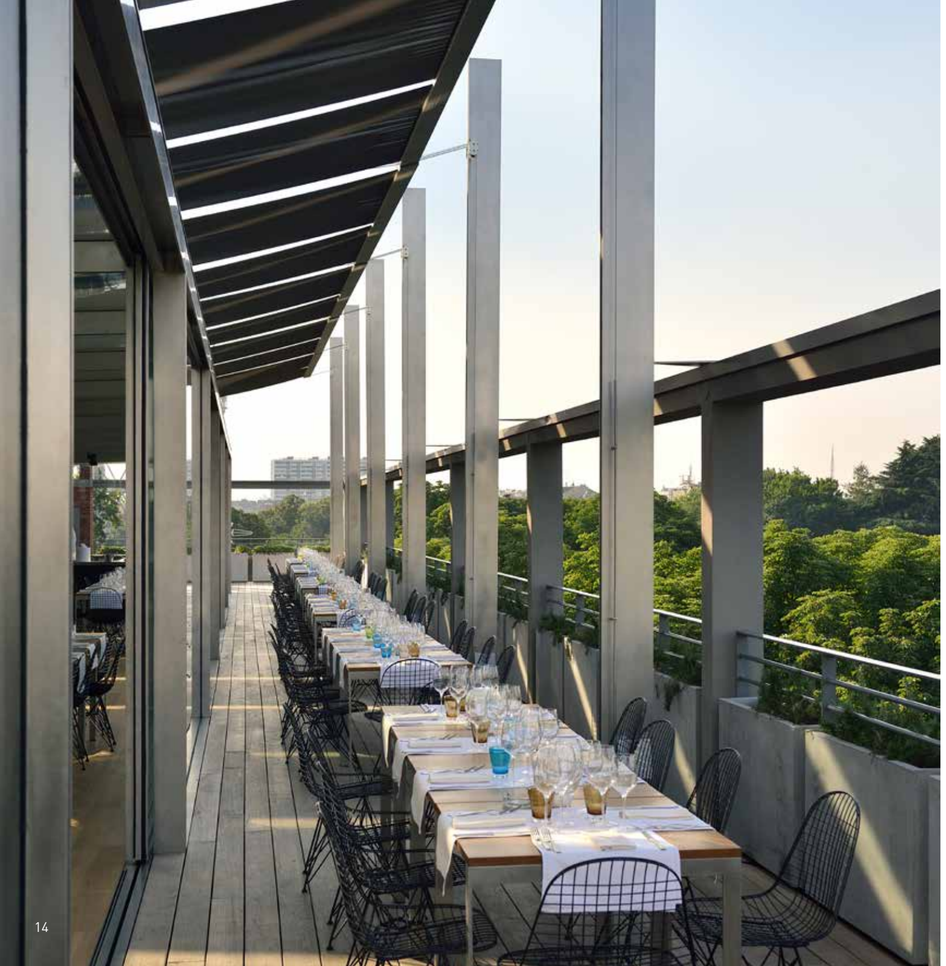










J.P. MORGAN LIBRARY

Project by **Renzo Piano Building Workshop**
Client **J.P. Morgan Library**
Location **Manhattan / NYC**
Year **2005-2006**

Notes
Bespoke bronze doors and partitions for main entrance and vestibule.

A project of great symbolic value, Renzo Piano's debut in New York City was full of technical challenges.
The architect envisioned a sober, yet warm Entrance and Vestibule made from true bronze in the tradition of artisan craftsmanship. Similar in design to the doors Capoferri had provided for the Auditorium "Parco Della Musica" in Rome - Italy, the Morgan Museum & Library entrance was required to be even more technically advanced because of wind loads, thermal insulation, and ADA requirements.
Also, the main metal façade was designed to allow for thermal expansion into the ground while the pivot doors would require a solid, fixed foundation and thermal expansion upwards. Capoferri designed a special coupling of the doors to the façade structure to allow these elements to move independently from one another, thanks to special Teflon cushions.
All hardware was required to meet US specifications and as such, components were imported to Italy; then meticulously refinished to match the unique bronze finish of the doors and partitions.

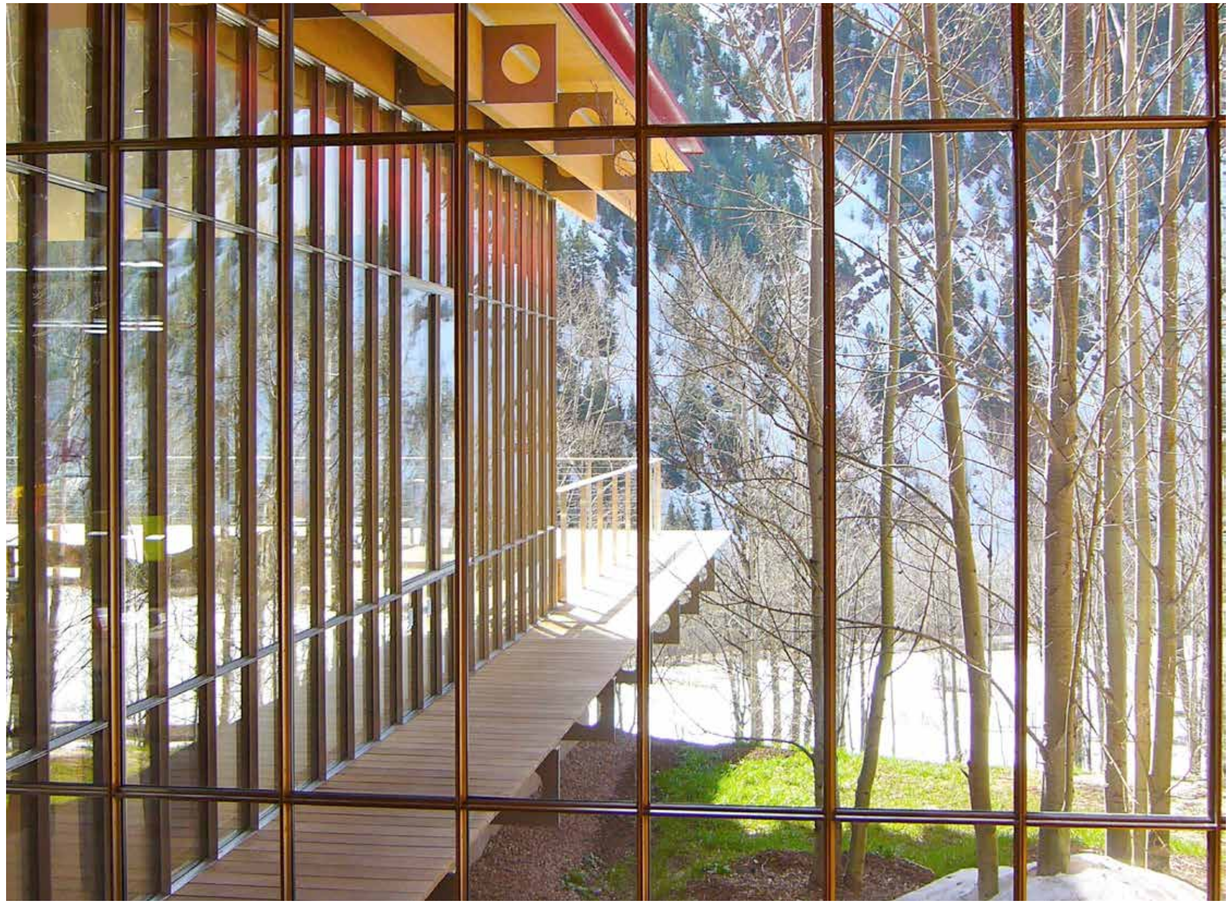
PRIVATE RESIDENCE

Project by **Renzo Piano Building Workshop**
Client **Undisclosed**
Location **Colorado, U.S.A.**
Year **2009-2010**

Note
Custom-built glazed façade from stainless steel and carbonfibre.

One of the most ambitious, complex and thrilling projects that Capoferri helped develop; this private Residence in Colorado, designed by Renzo Piano, is truly stunning and breathtaking.
The main challenge consisted in creating a glazed, stainless steel façade with mullion dimensions reduced to a minimum (1"W x 4"wD), in a location where thermal transfer is extreme and the local authorities do not permit the use of inert gas in insulated glass units.
Furthermore, the type of structure adopted for the building required the façade to allow the cantilevered rafters to independently deflect under snow loads.
The minimal dimensions of the façade profiles imposed the use of full visible hardware, which was turned into a feature, carefully designed in close collaboration with the architect's team. Every fastening screw was subject to discussion in order to make sure it would have a raison d'être not only technically, but also aesthetically. Handles were custom designed with the help of Capoferri's in-house 3D design and print technology.

Particular mention is to be made of the technology developed to allow for a thermally broken system on a façade with minimal profile dimensions subject to significant wind and potential live loads, resulting in the use composite material containing carbon fiber to stiffen the profile.
Due to the tight construction schedule no field dimensions could be taken prior to production and all partitions had to be built as per drawings. In a project where the architects explicitly "tried to make the world line up", this meant utmost precision and meticulous care during installation to guarantee that flooring, rafters, finishes and façade would indeed line up perfectly.
The April 2014 Architectural Record Edition of "Record Houses" states that one is "linked to the outside world through a sequence of planes that begins with the façade – a sublime Italian custom stainless-steel window system that forms the walls."






COLLE MASSARI

Project by **Edoardo Milesi & Archos**
Client **Undisclosed**
Location **Tuscany, Italy**
Year **2004-2006**

Note
Retractable swimming pool roof, vertical pivot windows without permanent mullion when open .

A retractable roof together with custom pivot doors, all engineered and built by Capoferri allow for a relaxing experience under the open sky in this lush Spa in Tuscany.

PRIVATE RESIDENCE

Project by **Bohlin Cywinski Jackson (Seattle)**
Client **Undisclosed**
Location **Whistler / Canada**
Year **2012-13**

Note
Custom curtain wall, windows, doors, skylights and cladding all from stainless steel AISI 316.

For this private residential project in Whistler, Canada, Bohlin Cywinski Jackson turned to Capoferri to build a custom stainless steel façade that needed to respond to the specific challenges of a mountain location, such as thermal transfer, snow loads, etc.
Particularly interesting are the high quality finishes not only of the façade itself but also of the oculars - light wells carefully placed in different parts of the garden – the flush interior doors, the exterior metal claddings and the stainless steel ventilation grilles.
Of particular interest is the fully bespoke main entrance with its unique push bar.
This project allowed Capoferri to show the difference it can make in the final result to have a single competent supplier providing all custom metalwork to a consistently high level of fit and finish.
Bohlin Cywinski Jackson have since turned to Capoferri for two more of their most exclusive residential projects in Aspen and in Sagaponack, Long Island.

PRIVATE RESIDENCE

Project by **Studio Bo Architettura, Tiziano Lera Architetto**
Client **Undisclosed**
Location **Mantova, Italy**
Year **2007-2008**

Note
Teak windows: casement windows, ox-eye windows (œil de bœuf), automated and curved lift&slide windows; stainless steel bay window, operable dome skylight.

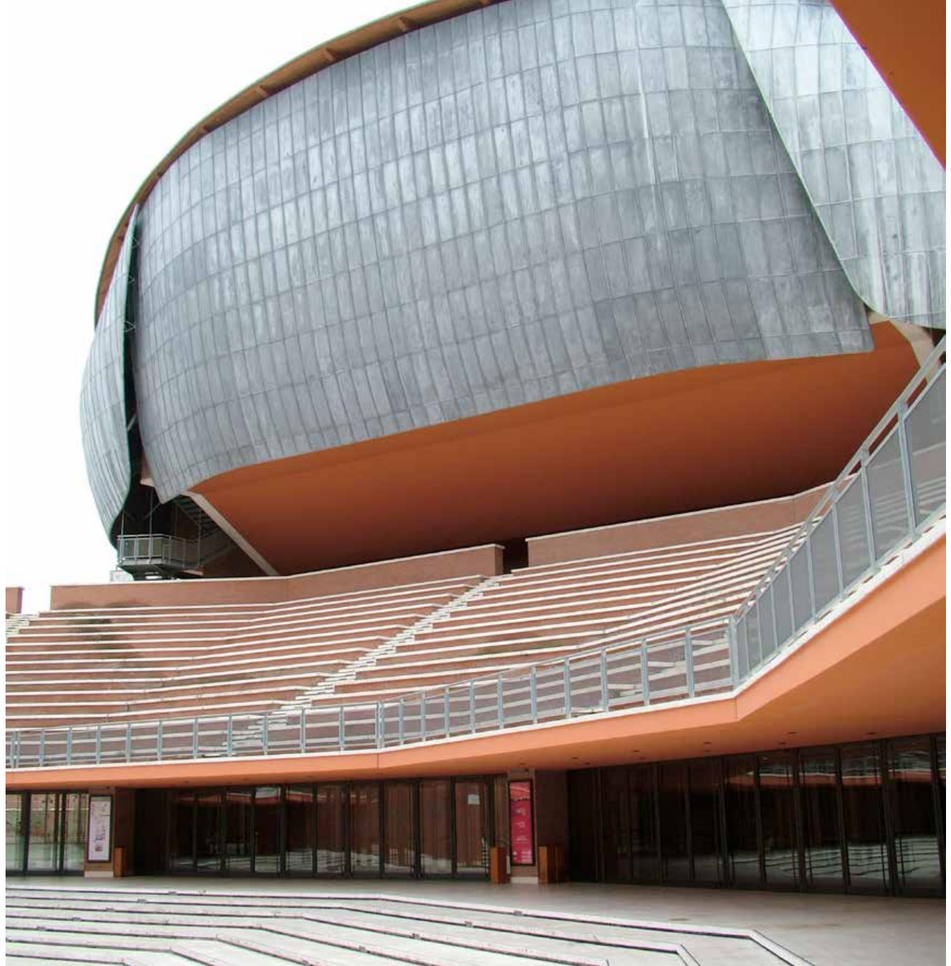
A multitude of opening types, materials and finishes where requested for this private residence in the heart of Italy, for which Capoferri provided a wide range of scope. The Jacuzzi pool, while usually accessed from the inside, allows for a unique outdoor experience thanks to the automated, curved lift&slide window.

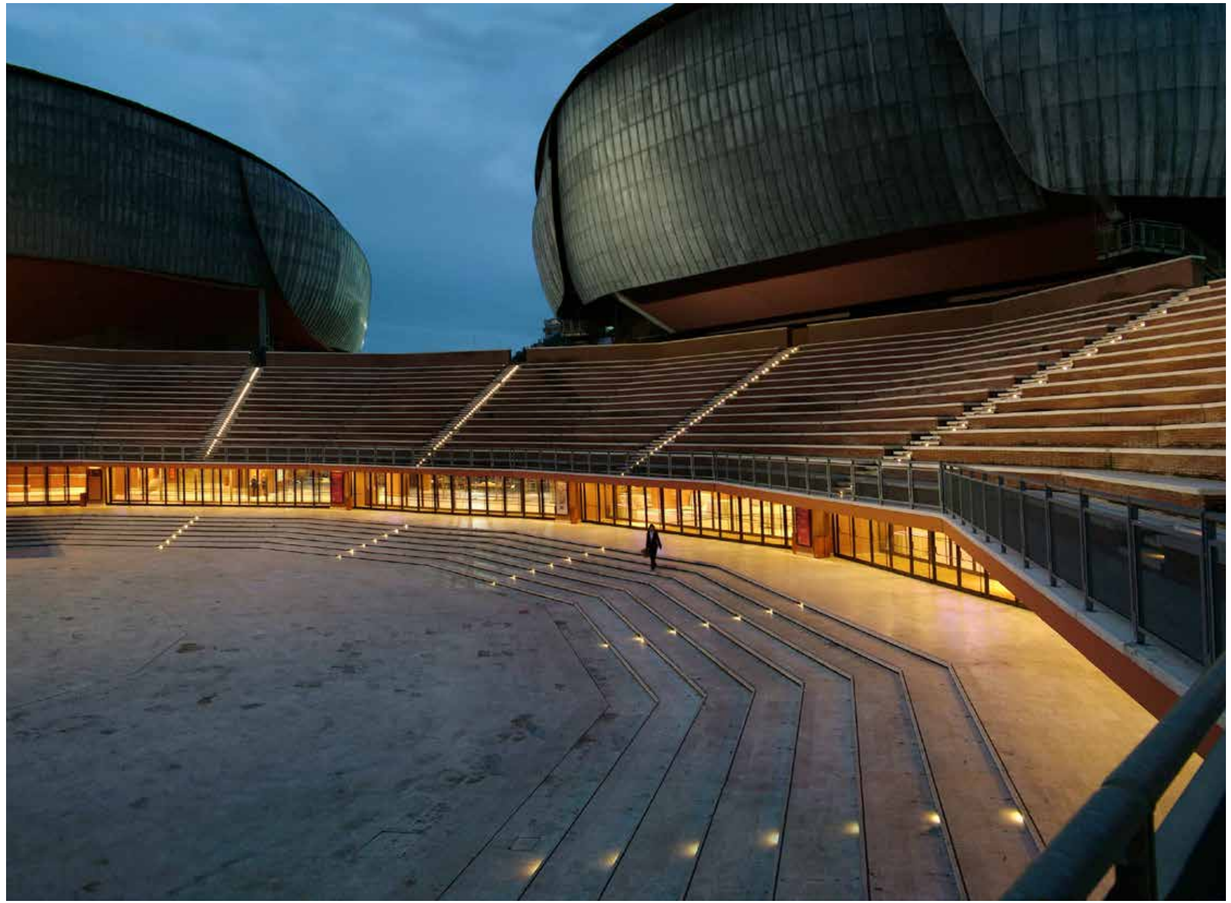
AUDITORIUM
“PARCO DELLA MUSICA”

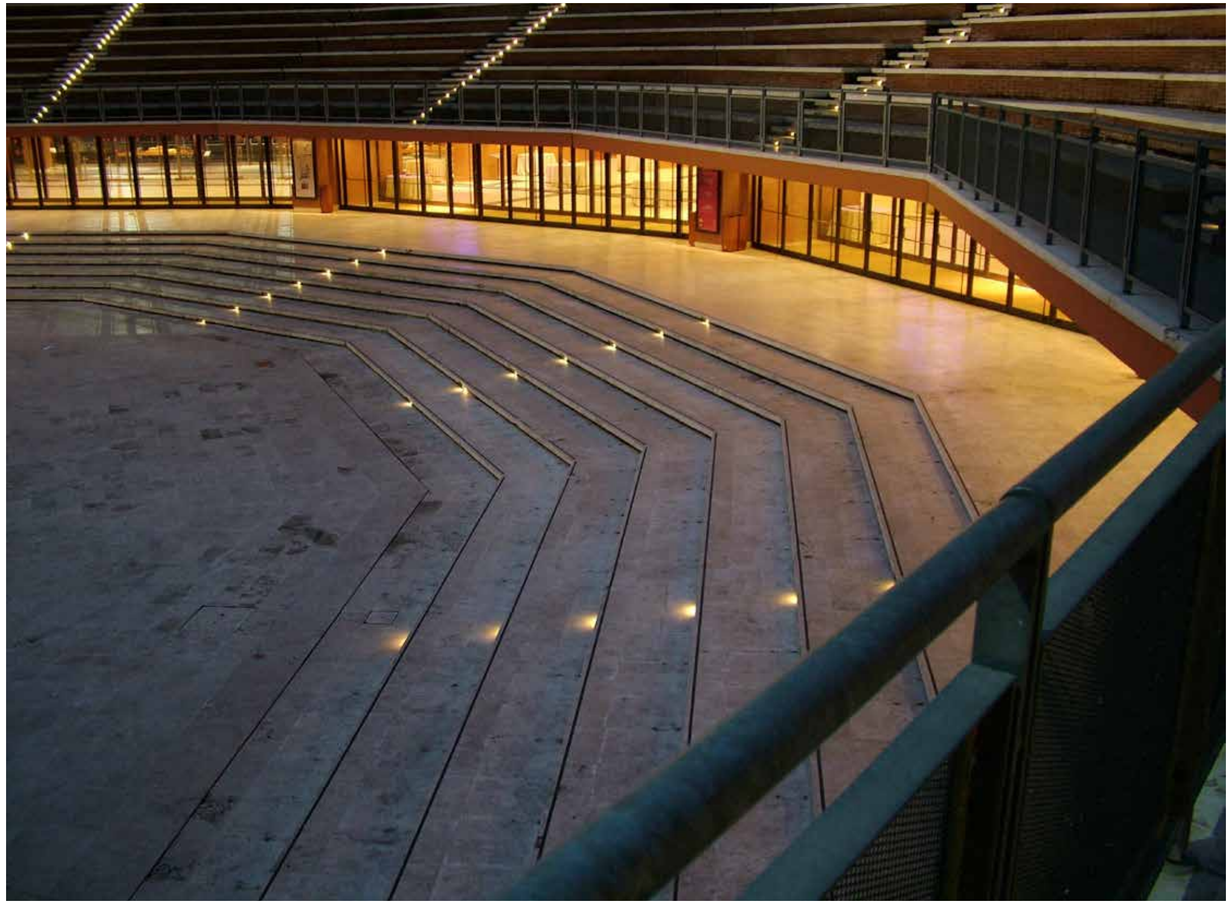
Project by **Renzo Piano Building Workshop**
Client **The Municipality of Rome**
Location **Rome / Italy**
Year **2002**

Notes
Bespoke bronze doors and vestibule.

Renzo Piano asked Capoferri to build the bespoke bronze doors for the new Auditorium in Rome, the Auditorium Parco della Musica. 120 doors were to be crafted. They were to match the overall aesthetics of his project and reflect artisan craftsmanship and elegance, through design, execution, and finish. Rather than opting for commercial, extruded profiles from “architectural bronze”, the architect desired the authentic patina of real bronze, a non-directional finish and the absence of visible mechanical joints. Capoferri thus built the doors from sheets of true bronze. All joints were carefully re-welded and refinished with expertise, using agents that would give a rich, nuanced texture to the surface, resulting in a finish with distinct vibrancy and depth. A special mechanism was developed to allow the insertion of insulated glass units into the door frame rather than using visible glazing stops on the profile.
The antipanic pushbars where all refinished at Capoferri and clad with bronze to perfectly match the doors.








YUNNUHSTAN DEM DOIDEE YGUDUH GED RIDUH YDDAN ONJEN


SEHEN ODER NICHT SEHEN HOEREN ODER NICHT HOEREN

HASIP PAŞHA YALISI

Project by **Capoferri**
Client **Undisclosed**
Location **Beylerbeyi, Istanbul, Turkey**
Year **2002-2005**

Note
Custom designed sash windows, sliding sunbreakers, ventilated facade in wood, finecarving, built-in furniture, interior doors, parquet, interiors project supervision, facade consultancy.

The Capoferri Contract Division, in collaboration with the local Landmarks Commission helped to bring this traditional Bosphorus Yali in Beylerbeyi, Istanbul back to life.
Originally built around 1850 by Architect Fossati, the all-wood building had been totally destroyed in a fire.
In order to maintain the original façade design, Capoferri designed a ventilated façade, complete with hung sash windows, entrances, sunbreaking panels, copings, moldings, columns and parapets - all milled from solid and laminated wood.
Being situated on the Bosphorus and thus subject to a marine climate, the wood to be used was carefully selected and only Canadian Red Cedar was used; which in case of the façade had to be strictly quarter-cut.
Capoferri also supplied all built-in furniture, the handrails of the impressive main staircase as well as artistic glazing, period furniture and interior doors. Stone works and parquet was provided by trusted partners of Capoferri.
Last but not least, the pool house, service building and the grand entrance gate have all been provided by Capoferri.

PINACOTECA AGNELLI LINGOTTO

Project by **Renzo Piano Building Workshop**
Client **Fiat Engineering**
Location **Turin , Italy**
Year **2002**

Notes
Custom stainless steel windows and vestibule.

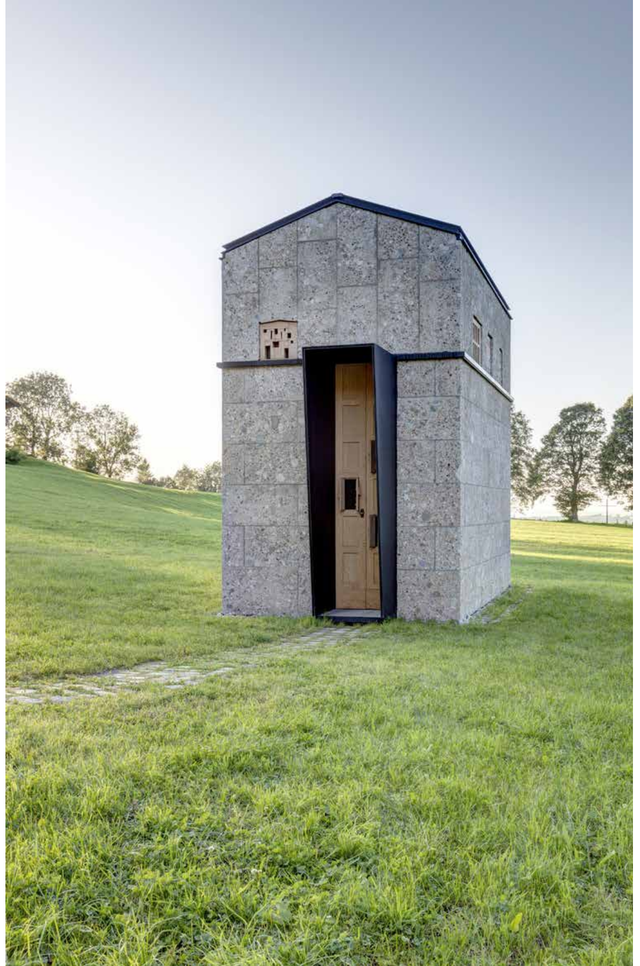
The Pinacotheca Agnelli at the Lingotto Building in Turin was quickly nicknamed Scrigno (i.e. The Shrine) for the extraordinary quality of both the project itself, and the superb art treasures in its custody.
As with all his projects, Renzo Piano would not accept compromise in achieving the vision he had clearly in mind. Rather, he would push technology and manufacturing to satisfy his needs and once more turned to Capoferri to design and build the glazed portions for his project.
Located on the roof of the historic Headquarters of FIAT, the Pinacotheca features a storefront consisting of large glazed partitions framed by an elegant, crafted profile of stainless steel.
Despite the reduced dimensions of the frames; the partitions, which are center pivot and are without permanent mullions when open, easily withstand the heavy wind loads thanks to a specially designed telescopic fixed frame.
All hardware is bespoke to maintain the overall soberness and consistent surface finishes throughout.

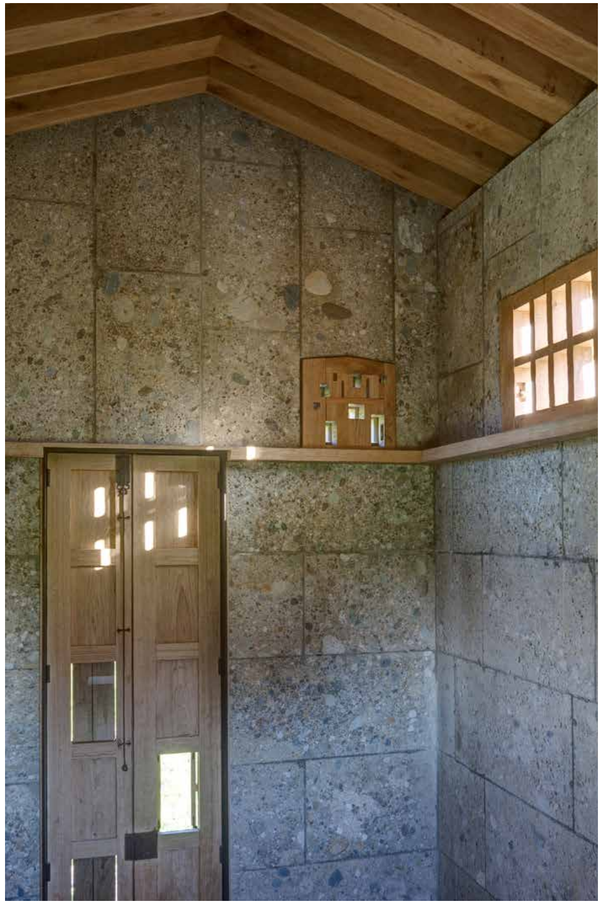
AUERBERG CHAPEL

Project by **Michele De Lucchi aMDL**
Client **Undisclosed**
Location **Auerberg, Germany**
Year **2012**

Notes
Bespoke oak windows and doors, bronze finishes, roof structure and covering.

Architect Michele De Lucchi is often called the "Poet of Architecture", both for his subtle, aesthetic sensitivity and the constant research of an intimate, artisan perspective on his projects.
All of these elements can be clearly found in this tiny chapel at Auerberg, outside the village of Fischbachau in Bavaria. A project born by the desire of the owners to transform one of De Lucchi's highly acclaimed wooden sculptures into reality.
Starting from this architectural premise, Capoferri assisted the architect in scaling a small, abstract object into a place for prayer and contemplation.
Capoferri engineered, built and installed the wooden roof structure clad with brass, the impressive entrance vestibule made from solid blackened brass, and windows with unique sun breaking inserts made from reclaimed oak retrieved directly by the architect.
Though small, the project proved to be complex in finding the right equilibrium between the different materials as envisioned by the architect. A perfect challenge for the Capoferri Contract Division.



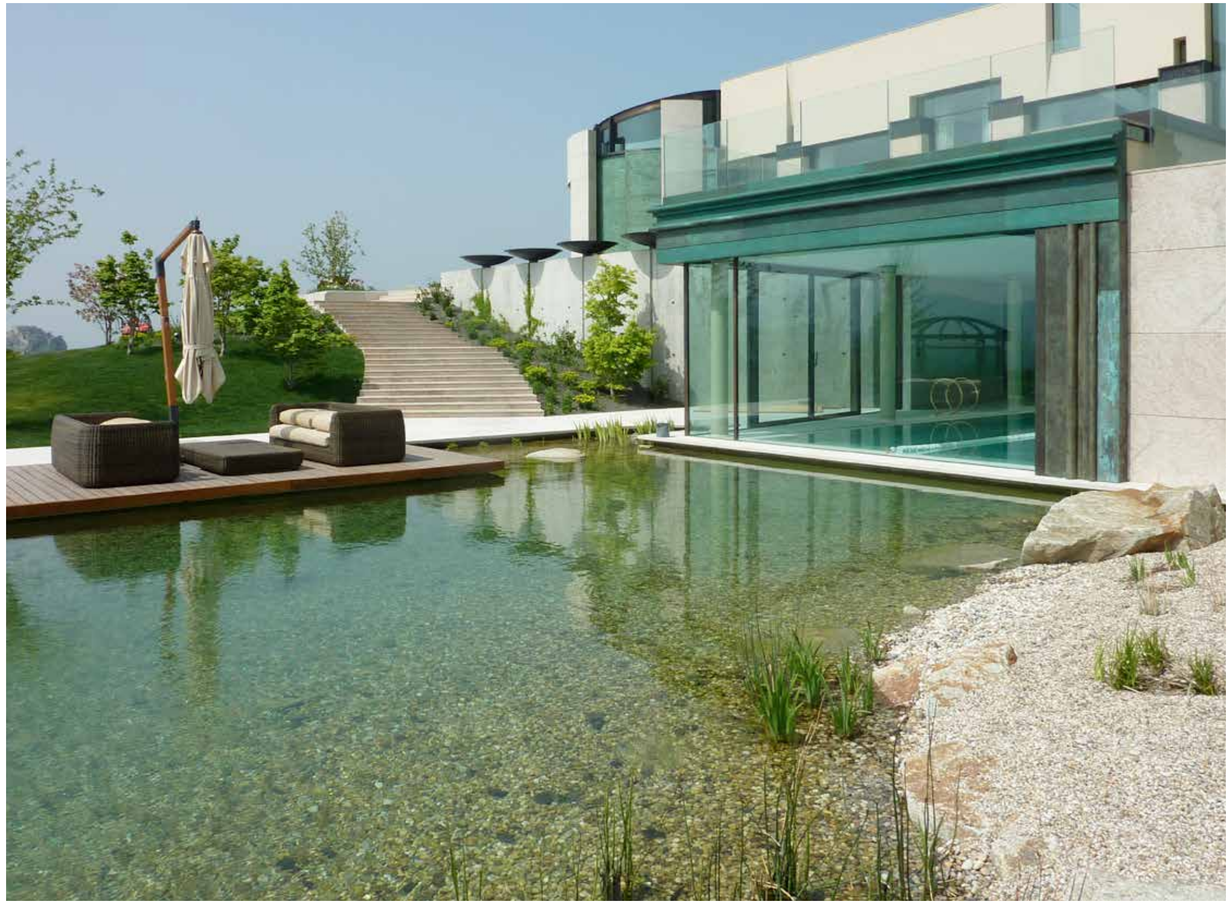


PRIVATE RESIDENCE

Project by **P Beta – Arch. Jan Strcula**
Client **Undisclosed**
Location **Bratislava, Slovakia**
Year **2008-2012**

Note
Custom bronze windows, glazed bronze tower and skylights for luxury villa in Bratislava.

A magnificent and important residence, located in an area of historical importance. Based on a complex footprint, the interior is bathed in light from bronze windows of impressive dimensions. Inside, glazed floors connect with the vertical façade and continue as exterior walkover skylights that provide daylight for a lush indoor pool.
Especially stunning is the living room extension, a tower made from thermally broken bronze and glass, over 7 meters high, protected from direct sunlight by automated sliding panels made from true bronze, micro-perforated and pre-weathered to provide the panels with a distinct foliage pattern.

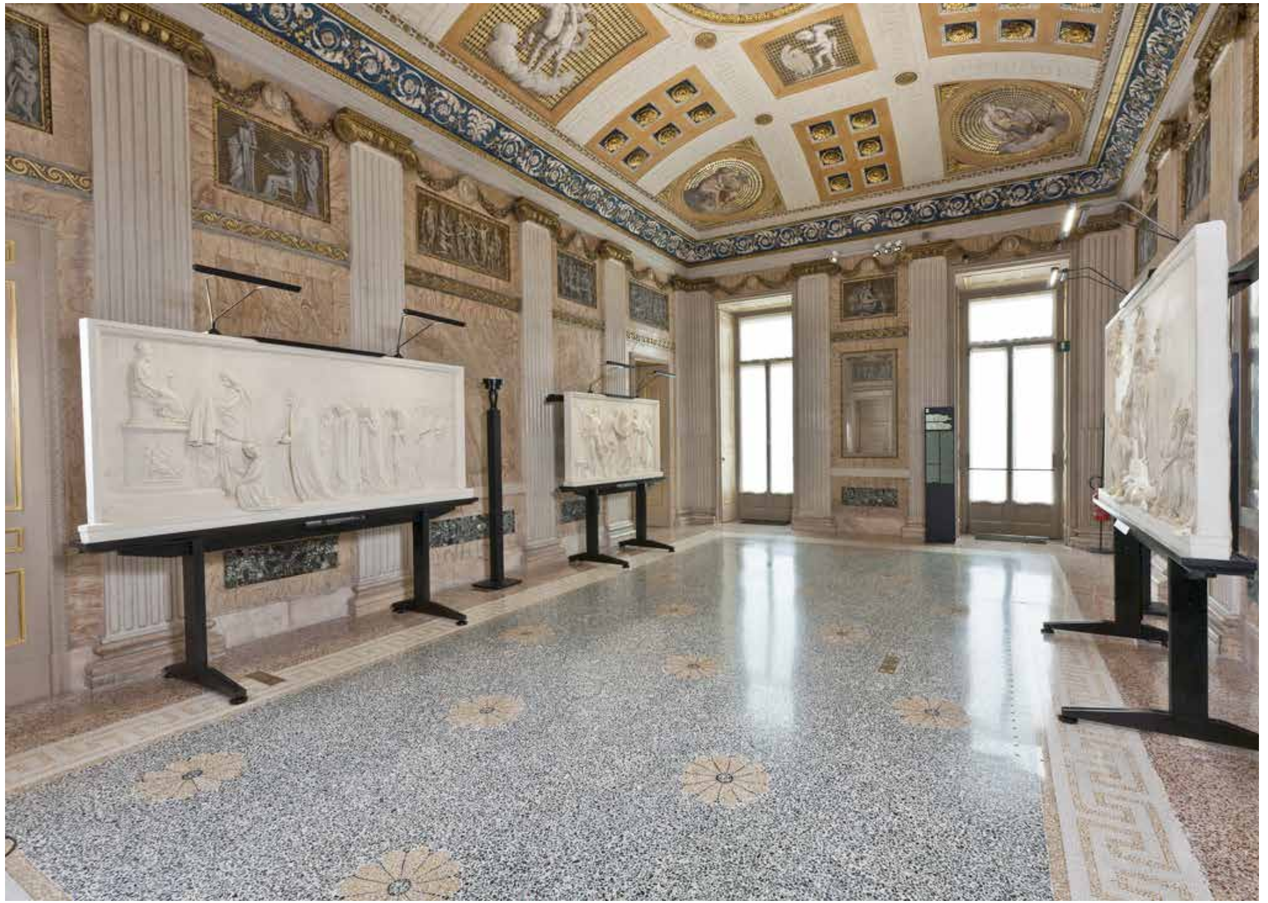


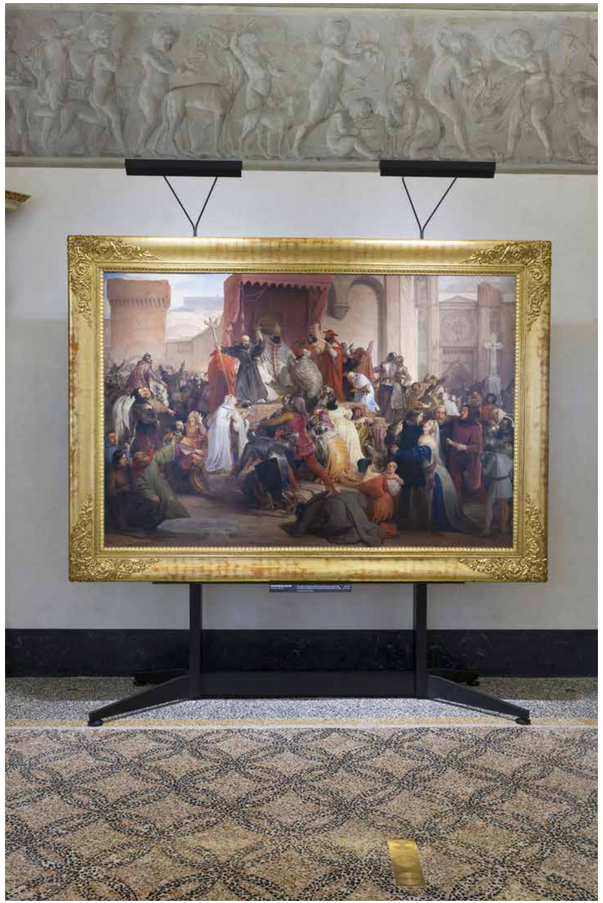
PALAZZO ANGUISSOLA GALLERIE D'ITALIA

Project by **Michele De Lucchi aMDL**
Client **Intesa San Paolo**
Location **Milan, Italy**
Year **2012**

Notes
Custom-built armored windows and doors, bronze windows, brass light fixtures, brass bollards, easels from blackened brass for paintings and Canova bas reliefs.

The Palazzo Anguissola hosts one of Milan's most interesting museums, Le Gallerie D'Italia, exhibiting art collections of the 18th and 19th century owned by Intesa San Paolo, one of Italy's biggest banking groups. Capoferri was asked to build wood windows that would integrate high security performance, while blending in perfectly with the period style of the old Palazzo. Custom-engineered hardware was built for every single window and concealed armor was introduced. Additionally, the courtyard was to be closed off by inserting glazed partitions and operable units between the stone columns and the adjacent arcade. This enclosure had to be self-supporting as the possibilities to anchor the structure to the existing historic building were extremely limited. As a result, a structure consisting of pillars from true bronze as well as both fixed and operable glazed partitions complete with flush thresholds were designed. Additional custom windows from true bronze have been added, following the irregular surface of the building, previously scanned with a sophisticated laser scanner. De Lucchi also designed the easels that would hold the bas reliefs of Canova. Each easel was designed specifically for the bas relief it would have to display, in order to contain its dimensions and bear the weight of the exhibit. The easels, made from steel clad with treated brass, were then equipped with integrated lighting to adequately illuminate the masterpieces. Other, lighter easels, bespoke lampstands and brass bollards have been provided for the exhibition areas of the Galleria.



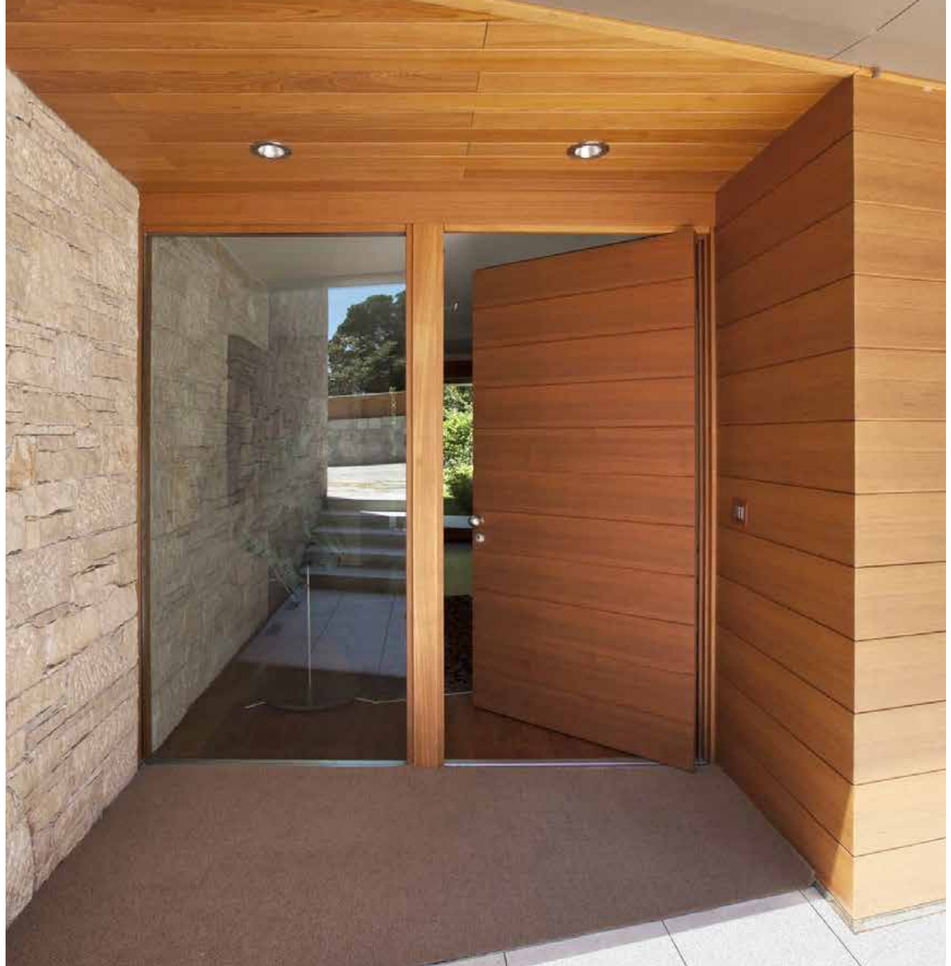


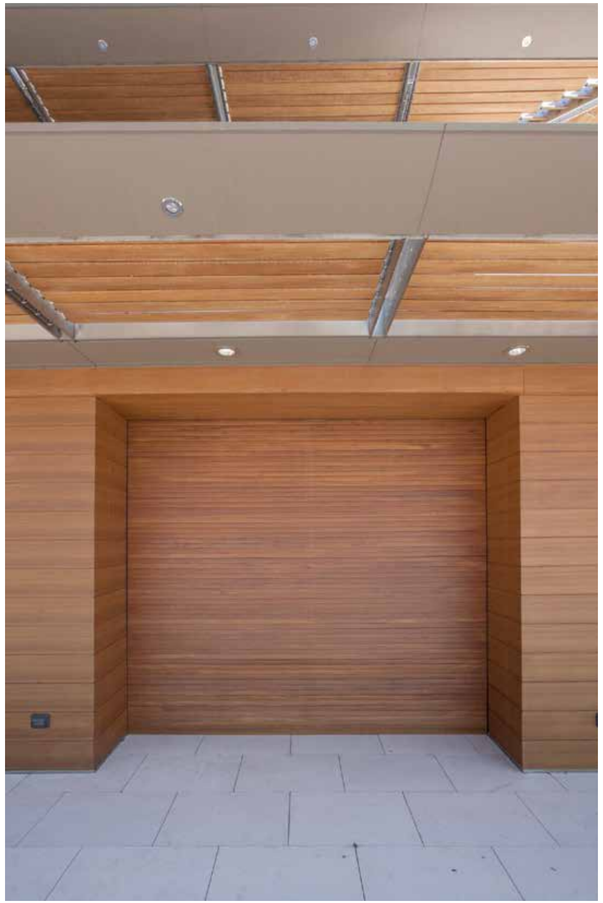
PRIVATE RESIDENCE

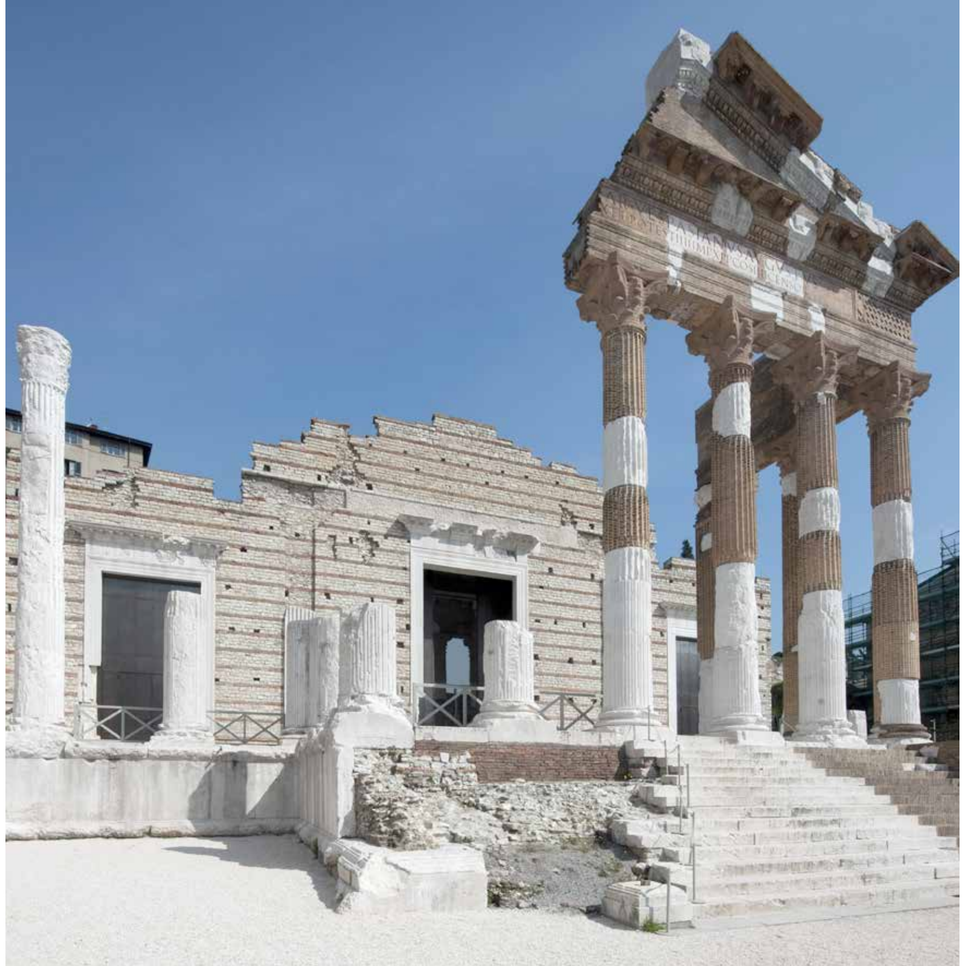
Project by **Borgobello Contin Arch. Ass.**
Client **Undisclosed**
Location **Northern Italy**
Year **2008**

Note
Teak windows: lift&slide windows, pocket-sliding windows, vertical pivot window-doors; shutters, mosquito nets, external blinds, skylights, sunbreakers and external teak cladding .

Located close to Trieste in Italy, this private residence is a perfect showcase for Capoferri's high precision millwork and artisan expertise. Windows of virtually all opening types have been employed together with matching sunbreakers and an external façade cladding, all from the same high quality Teak wood.







CAPITOLINO TEMPLE

Project by **Puglielli Gaetano Arch. Superintendence for Architectural Heritage, Bergamo**
Client **The Municipality of Brescia**
Location **Brescia, Italy**
Year **2013**

Notes
bronze portals, main entrance bay window with spandrels from true bronze and insulated glass units, automated and adjustable trickle vents, bespoke handles, pull bars and hardware.

The Capitolium, a Roman Temple located in the town of Brescia, constitutes the most important archaeological complex and best-preserved public buildings of the Roman Empire in Northern Italy. As of 2011 it is listed in the UNESCO World Heritage List.
Capoferri, under close scrutiny of the Superintendence of Architectural Heritage, engineered, built and installed the three monumental portals.
One of the major challenges was to fix the portals to the existing structure with as little as 4 fixing points for the main entrance bay window and 6 fixing points for the two lateral entrances – the absolute maximum conceded by the Authorities in order to safeguard the ancient structure.
Capoferri designed the central Main Entrance as an inverted bay window which would largely support itself and thus requiring only few connections to the building. Furthermore, the whole entrance is seated on rubber cushions in order not to be in direct contact with the original marble floors.
Humidity inside the Temple is controlled by automated trickle vents incorporated in the 3 entrances depending on the amount of visitors present at any given time.
All handles, pull bars and locking hardware are bespoke, made from true bronze also.

PADRE PIO
PILGRIMAGE CHURCH

Project by **Renzo Piano Building Workshop**
Client
Fabbrica della Chiesa dei Frati Cappuccini
Location **San Giovanni Rotondo, Italy**
Year **2003**

Notes
Custom-built automated portals and emergency exits.

The magnificent pilgrimage church dedicated to Pio of Pietrelcina, commonly known as Padre Pio, was designed by Architect Renzo Piano and features an impressive roof structure that reigns over the building and extends to ground level. 24 large emergency exits were to be inserted into the roof. These would have to work manually as well as motor-driven.
To blend in perfectly with the solemn elegance of the church, no mechanisms were to be visible and the finish of the doors was to match the roof on the outside as well as the interior wall plaster finish.
A classic up-and-over opening would have been too common and too dangerous as any outward projection of the door leaf in case of an emergency could potentially harm by-passers outside the building.
Capoferri therefore engineered a combination of a pivot and lifting mechanism that would allow the doors to retract while lifting upwards. A full size mock-up was built in Capoferri which had to undergo over 10,000 opening cycles, under the constant scrutiny of a webcam installed by the Authorities that had to certify its use as an emergency exit.

PRIVATE RESIDENCE

Project by **Arch. Recchi**
Client **Undisclosed**
Location **Turin, Italy**
Year **2004**

Notes
Stainless steel bay windows, skylights, metal windows, Red Cedar cladding, automated knee-fold panels.

Choice and combination of material, custom mechanisms, and their automation; this project features an array of solutions that turn an Italian private residence into a unique experience.
The front and side façade has been clad with sun breaking louvers from Canadian Red Cedar and parts of it can be opened through integrated sliding panels and pivoting partitions. The most stunning visual though is provided by the knee-fold partitions; a bespoke mechanism that Capoferri engineered on the basis of a rough sketch by the architect.
The windows, skylights and bay windows have been purposely built from different metals, ranging from galvanized steel to aluminum and stainless steel. A deliberate choice by the Architect to diversify the materials used.







PRESIDENTIAL PALACE

Project by **undisclosed**
Client **The Government of Georgia**
Location **Tbilisi, Georgia**
Year **2008-2009**

Notes
Oak windows and verandas, bronze facades with automated main entrance, high security windows.

The Presidential Palace in Tbilisi is a complex building; because of its history, its aesthetic references and, last but not least, its function.
Architect was faced with a structure already halfway built and the glass dome already in place. His modifications had to be subtle, yet effective, respectful of the building, and at the same time modern enough to meet the stringent requirements of a 21st century government facility.
Capoferri built and installed over 100 windows from red oak; two verandas (one on top of each wing of the building); and two three story façades from true bronze: each featuring an impressive, 5.4m high, automated two-leafed entrance door.
The main challenge was to insert a required amount of high security, bullet-proof windows that would conform to the most stringent military norms without being distinguishable from the 100+ regular wood windows of the building.
The windows were therefore successfully tested according to the NATO norm STANAG LEVEL 3, one of the most stringent military norms that can be applied to glazed surfaces.
Installation on site was carried out shortly before and after the Russian-Georgian crisis in 2008 resulting in additional logistical challenges.

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