

SAFE & PROTECTED

We cooperate with designers, architects and engineering specialists through consultations, design and supply, commissioning tests and much more, with experience and innovation, for an increasingly reliable technology aiming at the compliance with national and international laws and at the protection of people's health.



High quality standards in civil and industrial design are our focus, and our Clients' satisfaction represents our ambition since the very beginning of our activity.

SHIELDING SYSTEM FOR CITYLIFE TOWER A (Isozaki) B (Hadid) & C (Libeskind)



Client
CityLife SpA - Tower A; Tower B and Tower C

Activities
Project design of shielded cable trays and a shielding system for the power substations designed to protect people and workers against magnetic induction

Date of Completion
Torre A (Isizaki) completed; Torre B (Hadid) completed;
Torre C (Libeskind) in progress

Location
Milan, Italy

Objective
 $B \leq 3 \mu T$ to protect people inside the tower in compliance with the current Italian law

SHIELDING SYSTEM FOR GRUPPO HERA IN RIMINI



Client
Gruppo HERA

Activities
Design and installation of the G-iron Shielding System
inside the substation

Date of Completion
October 2018

Location
Rimini, Italy

Objective
 $B \leq 3 \mu\text{T}$ to protect population from
the magnetic induction produced by
the substation located underneath
the panoramic viewpoint

SHIELDING SYSTEM FOR GRUPPO HERA IN RAVENNA



Client
Gruppo HERA

Activities
Supply and supervision to retrofit a transformer room and cable trays for a cogeneration plant

Date of Completion
December 2017 - February 2018

Location
Bologna and Ravenna, Italy

Objective
Reducing the effects of magnetic induction to $B \leq 3 \mu\text{T}$ (30 mG)

SHIELDING SYSTEMS FOR EXPO MILANO 2015



Client
Regione Lombardia

Activities
Installation of G-iron Shielding System inside 24 power rooms, the Cascina Triulza building (permanent landmark) and shielded underground power lines

Date of Completion
August 2014 – February 2015


Location
Milan, Italy


Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect human health (visitors and staff of Expo Milano 2015)

SHIELDING SYSTEMS FOR ETISALAT DATA CENTRE DUBAI




 **Client**
Etisalat

 **Activities**
Project design of shielding systems for LV rooms and HV rooms

 **Date of Completion**
Production completed September 2018
Installation in progress

 **Location**
Dubai

 **Objective**
Project design of shielding systems for LV rooms and HV rooms

SHIELDING SYSTEMS FOR STABILE P1 SERVICE BUILDING



Client
Regione Lombardia

Activities
Installation of G-iron Shielding System
inside UPS room - LV room – Transformer room

Date of Completion
May 2018

Location
Milan, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG)
to protect public health

SHIELDING SYSTEM FOR GARDERMOEN AIRPORT IN OSLO



Client
Oslo Gardermoen Airport

Activities
Supply and supervision to retrofit a substation

Date of Completion
October 2017

Location
Oslo, Norway

Objective
 $B \leq 0.4 \mu\text{T}$ (4 mG) to protect to offices
above the substation in compliance
with W.H.O.'s recommendation

SHIELDING SYSTEM FOR ROMA FIUMICINO AIRPORT



Client
Fiumicino Scarl

Activities
Installation of G-iron Shielding System and cable tray
inside the Passengers' Terminal power room

Date of Completion
July 2018

Location
Aeroporto Internazionale
Leonardo da Vinci, Fiumicino - Rome, Italy

Objective
Keeping induction values below $3 \mu\text{T}$
(30 mG) to protect the passengers
and the personnel of the airport

SHIELDING SYSTEM FOR IRETI SPA

IRETI



Client
Eremo Monte Capra Torin

Location
Turin, Italy

Activities
Installation of a tray to protect the data cables

Objective
 $B \leq 1 \mu\text{T}$ to protect the RaiWay signal

Date of Completion
June 2018

SHIELDING SYSTEM FOR A PREFABRICATED SUBSTATION

ITALCABINE



Client
Municipality of Como

Activities
Installation of a shielding system designed to protect the area behind the substation

Date of Completion
May 2018

Location
San Fedele Intelvi (Como), Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect people and workers against magnetic induction

SHIELDING SYSTEM & MAGNETIC FIELD ASSESSMENT FOR ABB

ABB



Client
ABB Discrete Automotion and Motion Division, Italy

Activities
Assessment & Consultancy at the Milan site and installation of a shielding system designed to protect the personnel working inside the premises of the Arezzo plant (Power one plant)

Date of Completion
December 2012 & June 2015


Location
Arezzo & Milan, Italy


Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to comply with the Italian decree D.P.C.M. 8/7/2003

SHIELDING SYSTEM FOR ENI




 **Client**
ENI SpA #Syndial

 **Activities**
Installation of a G-iron Shield on the offices' floor located above a substation

 **Date of Completion**
April 2016 – December 2017

 **Location**
Milan, Italy

 **Objective**
Complying with the Italian standard in order to respect Italy's Quality target (D.P.C.M. 08/07/2003)
Magnetic induction level $B \leq 3 \mu\text{T}$ (30 mG)

SHIELDING SYSTEM FOR SIEMENS ITALY HEAD QUARTERS IN MILAN

SIEMENS



Client
Siemens SpA #Casa

Activities
Turnkey installation with commissioning

Date of Completion
July 2017

Location
Milan, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect the offices
above the substation

SHIELDING SYSTEM FOR CLINIQUE LA ROSE



Client
Clinique La Rose

Activities
MRI Magnetic Confinement

Date of Completion
September 2018

Location
Tunis, Tunisia

Objective
B ≤ 5 G to protect employees and
patients in the areas nearby the MRI
room

SHIELDING SYSTEM FOR SPOT WELDERS



Client
Imesa S.p.A.

Activities
Design, production and supply of shielding systems specific for spot welders to effectively mitigate the magnetic field produced without hindering the use of the machine

Date of Completion
April 2018

Location
Ancona, Italy

Objective
Comply with the limits protecting professionally exposed workers to magnetic fields

SHIELDING SYSTEM FOR A BEARING INDUCTION HEATER



Client
Confidential

Activities
Project design and manufacturing of the G-iron Shielding System for a large induction heater for bearings

Date of Completion
October 2018

Location
Confidential

Objective
 $B \leq 1 \mu\text{T}$ to protect employees working nearby the induction heater

SHIELDING SYSTEM FOR SS ANNUNZIATA IN SULMONA



Client
ASL 1 L'Aquila



Activities
Turnkey installation in 2 substations



Date of Completion
July 2017



Location
Sulmona, Italy



Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect the
hospital rooms above the substation

SHIELDING SYSTEM FOR SS. GIOVANNI E PAOLO HOSPITAL IN VENICE



Client
Azienda U.L.S.S. n. 12 "Veneziana"

Activities
Installation of a shielding system in electrical
and control rooms

Date of Completion
June 2012

Location
Venice, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) in the areas above
the shielded rooms

SUPPLY OF G-IRON FLEX™ TO THE COLUMBIA UNIVERSITY



Client
Columbia University

Activities
Testing G-iron Flex™ for future use as part of a building infrastructure

Date of Completion
January 2014

Location
New York, USA

Objective
Confidential

SHIELDING SYSTEM FOR HUMANITA UNIVERSITY CAMPUS IN MILAN

HU HUMANITAS
UNIVERSITY



Client
Humanitas University

Location
Milan, Italy

Activities
Turnkey installation in a substation

Objective
 $B \leq 1.26 \mu\text{T}$ (12.6 mG) for electromagnetic compatibility IEC EN 61000-4-8

Date of Completion
January 2017

SHIELDING SYSTEM FOR PISA SCHOOL DISTRICT



Client
City of Pisa

Activities
Retrofitting a school building to protect pupils from a nearby HV overhead power line

Date of Completion
October 2012

Location
Pisa, Italy

Objective
 $B \leq 0.3\mu\text{T}$ (3 mG) inside the shielded classroom to protect the children

SHIELDING SYSTEM FOR UNIVERSITY OF OSLO FOR THE PROTECTION OF A Transmission Electron Microscopy



Client
University of Oslo

Activities
On-site survey, production of certified trays (base & lid)
to shield Siemens busbars

Date of Completion
October 2015

Location
Oslo, Norway

Objective
Shielded induction value lower than
 $0.1 \mu\text{T}$ (1 mG) at 1 m from the busbar

SHIELDING SYSTEMS FOR GENERAL ELECTRIC OIL & GAS



Client
Nuovo Pignone Spa – General Electric Oil & Gas

Location
Massa Carrara & Florence, Italy

Activities
Underground shielding of power cables at Thermodynamic Test Bench and shielding systems in different substations

Objective
Protection of data cables and protection of personnel working near the substations

Date of Completion
October 2010 – July 2015 – January 2016 – March 2017

SHIELDING SYSTEM, SHIELDING CABLE TRAY AND SHIELDING SHELLS FOR BUSBARS FOR THE ITALIAN RAILWAY COMPANY



Client
Rete Ferroviaria Italiana SpA

Activities
Installation of G-iron Shielding System, cable tray and shells inside the power room of a high-speed train station in Milan

Date of Completion
November 2013

Location
Milan, Italy

Objective
Mitigation of the EMF affecting the Data Center, the Relax Area and Control Room in order to protect people (passengers and staff) and sensitive equipment

SHIELDING SYSTEM FOR ROMA TERMINI RAILWAY STATION

ALSTOM



Client
Alstom Ferroviaria SpA

Activities
Shielding the ceiling and the floor of a substation & supply of shielded trays for busbars

Date of Completion
July 2015

Location
Rome, Italy

Objective
 $B \leq 3 \mu T$ to protect the personnel on the upper and lower floors against low frequency magnetic fields according to the Italian law DPCM 8/7/2003 and to protect the Data Center and Control room for high speed trains

SHIELDING SYSTEM FOR MENARINI



Client
A.Menarini Manufacturing Logistics and Services s.r.l.

Activities
Shielding system for the transformer room

Date of Completion
April 2016

Location
Florence, Italy

Objective
 $B \leq 3 \mu\text{T}$ to protect the area above of
the power room

SHIELDING SYSTEM FOR SLEEP STUDY LAB AT SIENA UNIVERSITY



UNIVERSITÀ DI SIENA 1240



Client
University of Siena
Medical, Surgical & Neuroscience Department

Activities
Installation of a shielding system to facilitate a
clean environment

Date of Completion
June 2016

Location
Siena, Italy

Objective
Mitigating electromagnetic fields
in the range 5 Hz – 50 kHz

SHIELDING SYSTEM FOR LOUIS VUITTON



Client
Louis Vuitton

Activities
Project design and installation of the G-iron Shielding System inside the substation

Date of Completion
October 2018

Location
Florence, Italy

Objective
 $B \leq 3 \mu\text{T}$ to protect employees working in the shop and customers

SHIELDING SYSTEM FOR PRADA FOUNDATION



Client
Prada SpA

Activities
Installation of G-iron Shielding System in the power room of "Corner della Regina" Palace

Date of Completion
June 2012

Location
Venice, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) in the area above the electrical rooms

SHIELDING SYSTEM



Client
Rolex Italia SpA

Activities
Installation of G-iron Shielding System inside the new
Rolex building

Date of Completion
December 2014

Location
Milan, Italy

Objective
 $B \leq 3\mu\text{T}$ (30 mG) to protect people
working inside the premises

SHIELDING SYSTEM FOR KATARA HOTEL GALLIA, MILAN



Client
Hotel Excelsior Gallia

Activities
Shielding of the power cabinet beneath the ball room

Date of Completion
June 2012

Location
Milan, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect guests
and personnel of the hotel

SHIELDING SYSTEM FOR BVLGARI

BVLGARI



Client
Bulgari Italia SpA

Activities
Floor shielding inside the transformer room in order to protect the personnel working in the area beneath

Date of Completion
March 2016

Location
Valenza, Italy

Objective
Italian Quality target $B \leq 3 \mu\text{T}$ (30 mG) in compliance with D.P.C.M. 8/7/2003

SHIELDING SYSTEM FOR NH HOTEL IN VENICE



Client
NH Hotels Group

Activities
Turnkey installation in a substation

Date of Completion
November 2017

Location
Venice, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect the hotel
rooms above the substation

SHIELDING SYSTEM FOR PAM SUPERSTORES



Client
PAM Panorama SpA

Activities
Installation of a shielding system on the ceiling of the technical room

Date of Completion
May 2016

Location
Turin, Italy

Objective
Protection of the workers and general population in compliance with current Italian standard (DPCM 8/7/2003 - $B \leq 3 \mu T$)

SHIELDING SYSTEM FOR THE "GALLI" THEATER IN RIMINI



Client
Amarcord s.c.arl. – CMB Group

Activities
Supply and supervision to retrofit two substations

Date of Completion
March 2018


Location
Rimini, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) to protect the people using the areas around and above the substations

SHIELDING SYSTEM FOR THE NATIONAL RESEARCH COUNCIL




 **Client**
Consiglio Nazionale delle Ricerche

 **Activities**
Installation of G-iron shielding system to protect a near-by scanning electron microscope and its operators

 **Date of Completion**
September 2015

 **Location**
Bologna, Italy

 **Objective**
 $B \leq 3 \mu\text{T}$ in the SEM room adjacent to the electrical room

SHIELDING SYSTEMS FOR POLICE FORCES IN SPAIN



Client
Guardia Civil (Military force charged with police duties)

Activities
Shielding system for the transformer room of the building

Date of Completion
September 2013

Location
Lorca, Spain

Objective
 $B \leq 1.25 \mu\text{T}$ (12.5 mG) in the areas above and adjacent to the electrical rooms

SHIELDING SYSTEM, SHIELDING CABLE TRAY AND SHIELDING DOOR FOR McDONALD'S



Client
McDonald's Development Italy, Inc

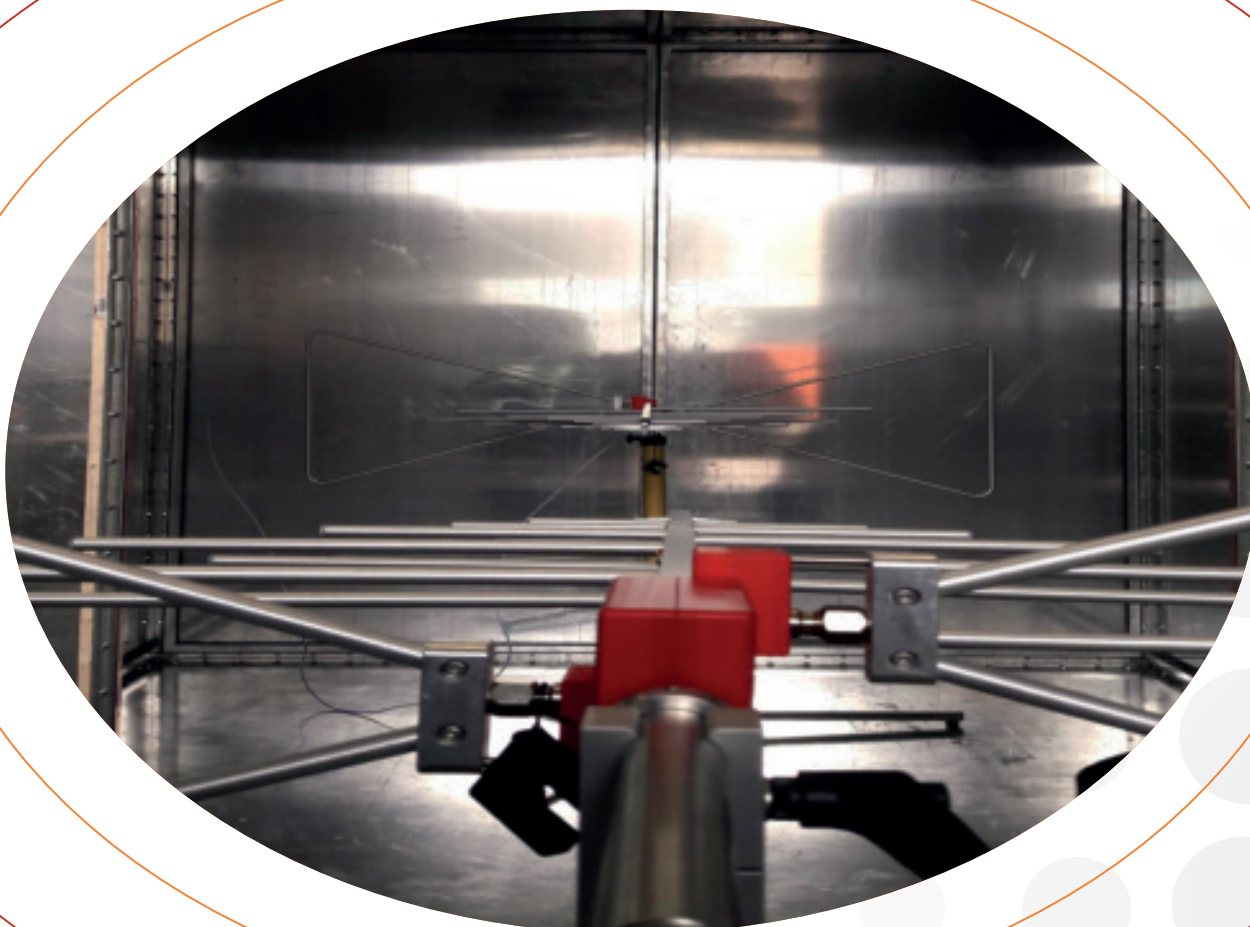
Activities
Installation of G-iron Shielding System including a specifically designed shielding door in the power room of McDonald's restaurant

Date of Completion
January 2014

Location
Curno, Italy

Objective
 $B \leq 3 \mu\text{T}$ (30 mG) in four rooms affected by the magnetic induction generated by electrical rooms

ELF-RF SHIELDED ROOMS PROOF OF CONCEPT - R&D



Client
Prototype

Activities
Installation of shielding enclosure to protect confidential information

Date of Completion
In progress from December 2018

Location
Arezzo, Italy

Objective
Data protection from cyberattacks in frequency range 5 Hz – 18 GHz