WHO WE ARE

NORMA Engineering Company has been established to gather the professional experiences of some of the main Italian engineering and consulting companies, working in the European and International market of Civil Engineering. NORMA, through the long professional life of its partners, spanning over 30 years, has developed a wide expertise in integrated design services, in Civil Engineering and Architecture, regarding Great International Projects, in residential, commercial, industrial, healthcare and urban fields.

The six Engineering Companies Founders of NORMA, Mpartner (founded in 2005), Starching (1992), Ariatta (1992), Tekser (1996), CeAS (1980) and Redesco (1975), all located in Milan, provide full expertise spanning the specific branches of Project and Construction Management, Architecture, Civil Engineering, Mechanical, Electrical and Plumbing Engineering for Buildings, Structural, Geotechnical and Infrastructure Engineering.

NORMA relies on a fixed organization including more than 240 engineers and technicians, all trained, used to working in a multi-disciplinary team and according to an integrated procedure, based on shared design criteria and coordinated time schedules.

NORMA Direction keeps under continuous observation the quality level of the developed projects to match the required standards, always pre-defined at basic design stage. NORMA Organization, at all levels, has a consolidate culture of procuring a full service for the complete satisfaction of its Customers.

NORMA, through its Partners, relies on a sound financial and economical basis, experienced and consolidated through more than 30 years of professional activity.
OUR VISION

To become a reference point for Integrated Design and Construction Management, in Civil Engineering and Architecture, both for public works and private Clients, able to deal with large and complex projects as well as with ready on-demand technical consultancy and medium-size projects.

To provide a high level service, for the quality of developed projects (both under the conceptual and under the technical contents point of view) as well as in fully meeting Customer’s requests and needs.
OUR MISSION

Technical skills, organization, human and professional attributes, reliability, enthusiasm while approaching market opportunities: these factors are key to the invaluable NORMA assets for the pursuit of the most thorough Customer’s Satisfaction, which, in synthesis, is the core of our Mission.

This will be accomplished by means of a continuous training of personnel and investments in implementing the organization structure and skills, feeding our knowhow by means of a constant relationship with high profile Companies and Research Institutes.
WHAT WE CAN DO
Architectural and civil engineering skills in an integrated organization

NORMA’s organization is specialized in planning, design development, and implementation of building projects in the tertiary, commercial, residential, industrial, real estate, hotel and healthcare sectors, including multifunctional facilities and road/railroad infrastructures. Through its partners’ wide experience, NORMA offers a wide range of engineering and architectural services for firms operating in the civil construction field. They include:

- Technical and Financial Consulting
- Value Engineering
- Project Management
- Feasibility and Concept Studies
- Planning
- Concept and Basic Design
- Detail Design
- Consultancy for Material and Construction Systems Technology
- Construction Site Supervision and Safety
- Construction Management
- Assistance for Laboratory and Site Testing and Monitoring

The services provided cover all the specific areas required in the construction sector, and are always coordinated by in-house personnel, whose technical and coordination skills, sharpened through continuous ongoing training, guarantee an uniform and coordinated response in all areas of operation and the achievement of customer goals.
NORMA, relying on its team of more than 240 engineers and architects, can offer specialized expertise to guarantee an interdisciplinary approach to feasibility and concept studies, basic design and detailed design in virtually all branches of building engineering, namely:

Architectural Design
• Medical Conceptual Design
• Architectural Feasibility Studies
• CAD Design and Modelling
• Regulatory Reviews and Approvals
• Construction Documents

Civil Engineering
• Structural and Geotechnical Engineering
• Seismic and Wind Engineering
• Building Physics
• Design of civil works for industrial plants (e.g., power production plants, cement mills, oil/gas etc.), railways and railroads

M.E.P. (Mechanical, Electrical and Plumbing) Engineering
• Heating, Ventilation and Air Conditioning (HVAC)
• Active Fire Protection Systems
• Plumbing and Sewage

Site Design and Planning
• Urban Planning and Design
• Environmental Planning and Engineering
• Feasibility Studies
• Land Development Studies
• Site Selection
• Transport Planning
• Roads
• Parking

Interior Design
• Interior Architectural Design
• Furniture and Furnishings Selection
• Furniture and Furnishings Budgeting
Construction Services
- Quality Control
- Construction Management
- Vendor Follow-up
- Field Inspection
- Site Testing and Monitoring
- T.A.B. Testing and Balancing
- Commissioning (for LEED purposes)
- Quantity Surveying

Project Management
- Cost Estimates
- Time & Cost Control
- Support in Tendering Process and Suppliers Selection
- Contractual Support
- Study Planning
- Site Planning

Technical and Financial Consulting
- Feasibility Studies
- Support in the Property Development phase
- Due Diligence
- Audits on projects

Safety and Health at construction site
- Safety and Health Coordination during construction
- Safety and Health Planning
- Safety and Health Control
The partners of NORMA have developed an high experience in integrated design service regarding Great International Projects, in the following fields:

- Corporate
- Multifunctional
- Community, Culture & Education
- Residential
- Hospitality & Commercial
- Industry
- Infrastructures
- Data Center, Telecom & Broadcasting

The following references gather some of the major NORMA projects which involved at least one of the NORMA partners.
| DESCRIPTION | New business and commercial centre |
| LOCATION | Porta Nuova, Milano (Italy) |
| DIMENSION | total 170,000 sqm |
| | offices 75,000 sqm |
| | parking 40,000 sqm |
| | commercial & public spaces 55,000 sqm |
| PERIOD | start Jul 2008 - end May 2012 |
| PROPERTY | Hines Italia spa, S.G.R. spa |
| USER | Unicredit Bank |
| ARCHITECTURAL PROJECT | Cesar Pelli & Associates - New York |
| GENERAL CONTRACTOR | Colombo Costruzioni spa |
| PROJECT COST | 180,000,000 € |

| DESCRIPTION | New complex for offices |
| LOCATION | Milan (Italy) |
| DIMENSION | total 45,600 sqm |
| | offices 35,000 sqm |
| | restaurant-fitness 1,800 sqm |
| | parking 8,800 sqm |
| PERIOD | start Oct 2006 - end Feb 2009 |
| PROPERTY | Maciachini Properties srl |
| USER | Gruppo Zurich Italia srl |
| ARCHITECTURAL PROJECT | Scandurra Studio |
| PROJECT COST | 50,000,000 € |

| STATUS | Built and in use |
Multifunctional

DESCRIPTION: New multifunctional complex
LOCATION: Milan (Italy)
DIMENSIONS:
- Total: 121,000 sqm
- Offices: 5,000 sqm
- Residential: 15,000 sqm
- Commercial: 9,000 sqm
- Fitness: 2,000 sqm
- Hotel: 15,000 sqm
- Parking: 75,000 sqm
PERIOD: Start Mar 2007 - in progress
PROPERTY: Porta Vittoria spa
ARCHITECTURAL PROJECT: UCP4 - Nonis Maggiore Associati
GENERAL CONTRACTOR: Colombo Costruzioni spa
PROJECT COST: 155,000,000 €
STATUS: In progress

DESCRIPTION: Porta Nuova Varesine - Lots 1 & 2
LOCATION: Milan (Italy)
DIMENSION: Total: 98,500 sqm
PERIOD: Start 2010 - in progress
PROPERTY: Hines Italia spa
ARCHITECTURAL PROJECT:
- Lot 1 - Buildings 1-2-3: KPF - Kohn Pedersen Fox Architects
- Lot 2 - Buildings 4-5: M2P e Associati - arch. Matteo Tartufoli e Matteo Paloschi
- Lot 2 - M2P Architecture & Capucina Partnership
GENERAL CONTRACTOR: CMB
PROJECT COST: 205,000,000 €
JOB ASSIGNMENT: Architectural and MEP Design Review, Support to General Site Supervision, Structural Constructive Design
STATUS: In progress
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LOCATION</th>
<th>DIMENSION</th>
<th>IN PROGRESS</th>
<th>CLIENT</th>
<th>USER</th>
<th>PROJECT</th>
<th>PROJECT COST</th>
<th>JOB ASSIGNMENT</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policlinico Hospital</td>
<td>Milan (Italy)</td>
<td>total 75,000 sqm</td>
<td>start 2010 - end 2010</td>
<td>Techint spa</td>
<td>Asl, Ospedale Maggiore Fondazione di Milano</td>
<td>Arch. Stefano Boeri</td>
<td>€56,000,000</td>
<td>MEP Basic Design, MEP Detailed Design</td>
<td>In progress</td>
</tr>
<tr>
<td>New Court House</td>
<td>Trento (Italy)</td>
<td>total 40,800 sqm</td>
<td>start 2006 - end 2009</td>
<td>Provincia Autonoma di Trento</td>
<td>Arch. Pierluigi Nicolin</td>
<td>Arch. Pierluigi Nicolin</td>
<td>€43,862,000</td>
<td>MEP and Structural works only, MEP Concept Design</td>
<td>Design phase completed</td>
</tr>
</tbody>
</table>
### Residential

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LOCATION</th>
<th>DIMENSION</th>
<th>PERIOD</th>
<th>PROPERTY</th>
<th>ARCHITECTURAL PROJECT</th>
<th>PROJECT COST</th>
<th>JOB ASSIGNMENT</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engadin Wellness Residence</td>
<td>Scuol (Switzerland)</td>
<td>total 6,400 sqm</td>
<td>start 2012 - end 2015 (estimated)</td>
<td>EwR</td>
<td>Starching</td>
<td>20,000,000 €</td>
<td>Feasibility, Architectural Basic Design, Structural and MEP works only</td>
<td>In progress</td>
</tr>
<tr>
<td>&quot;Orti Antichi&quot; residential complex</td>
<td>Milan (Italy)</td>
<td>total 30,000 sqm</td>
<td>start 2003 - end 2007</td>
<td>Europa Risorse - Savoia Properties srl</td>
<td>Studio Architettura Beretta Associati - arch. Gianmaria Beretta (Milan)</td>
<td>15,400,000 €</td>
<td>MEP Detailed Design, Structural Detailed Design, MEP Site Supervision</td>
<td>Built</td>
</tr>
</tbody>
</table>
DESCRIPTION Enlargement of “Carosello” Shopping Centre
LOCATION Carugate - Milan (Italy)
DIMENSION total 32,000 sqm
PERIOD start 2005 - end 2008
PROPERTY Eurocommercial Properties
ARCHITECTURAL PROJECT One Works (MI), arch. Leonardo Cavalli
Dunnet & Craven (UK)
GENERAL CONTRACTOR Cesi
PROJECT COST 29,152,353 € Structural and MEP works only
JOB ASSIGNMENT MEP Basic Design
MEP Detailed Design
MEP Site Supervision
Structural Basic Design
Structural Detailed Design
Structural Site Supervision
STATUS Built

DESCRIPTION Hotel Tower & Commercial
LOCATION Karthoum (Sudan)
DIMENSION total 36,000 sqm
PERIOD start 1998 - end 2001
PROPERTY Aster Associate Termoimpianti spa
USER Corinthia Hotel
ARCHITECTURAL PROJECT CMC Ravenna
PROJECT COST 5,800,000 € MEP works only
JOB ASSIGNMENT MEP Basic Design
MEP Detailed Design
MEP Site Supervision
Structural Basic Design
Structural Detailed Design
Structural Site Supervision
STATUS Built
Industry

**Description**: Industrial aeronautical complex for the fabrication of parts of Boeing B787 Dreamliner carbon fuselage

**Location**: Grottaglie - Taranto (Italy)

**Dimensions**: total 70,000 sqm

**Period**: start 2004 - end 2006

**Property**: Alenia Aeronautica

**Architectural Project**: Studio AMATI srl - arch. Alfredo Amati

**Project Cost**: 32,800,000 €

**Job Assignment**: MEP Basic Design, MEP Site Supervision

**Status**: Built

**Description**: Liquified Natural Gas (LNG) Tanks

**Location**: Panigaglia - La Spezia (Italy)

**Dimensions**: 2 tanks of 50,000 cm capacity each

**Period**: start 1995 - end 1996

**Client**: Snam spa

**Project**: Revamping of Panigaglia LNG storage plant

**Project Cost**: 9,953,000 €

**Job Assignment**: Structural Design of the Tanks, Structural Site Supervision, Construction Management

**Status**: Built
Infrastructures

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Structural manufacts for Genova-Ventimiglia railway line (18 km segment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCATION</td>
<td>Andora - San Lorenzo al Mare (Italy)</td>
</tr>
<tr>
<td>DIMENSION</td>
<td>total 18 km (16 km of tunnel)</td>
</tr>
<tr>
<td>PERIOD</td>
<td>start 2004 - end 2007</td>
</tr>
<tr>
<td>PROPERTY</td>
<td>Ferrovial Agroman</td>
</tr>
<tr>
<td>CONTRACTOR</td>
<td>Italferr spa</td>
</tr>
<tr>
<td>PROJECT COST</td>
<td>91,600,000 €</td>
</tr>
<tr>
<td>JOB ASSIGNMENT</td>
<td>Structural and Geotechnical Detail Design</td>
</tr>
<tr>
<td>STATUS</td>
<td>Built</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Bridge over the Brembo river and road bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCATION</td>
<td>Lenna - Bergamo (Italy)</td>
</tr>
<tr>
<td>DIMENSION</td>
<td>total length 70 m</td>
</tr>
<tr>
<td>PERIOD</td>
<td>start 2003 - end 2004</td>
</tr>
<tr>
<td>PROPERTY</td>
<td>Comunità montana della Val Brembana</td>
</tr>
<tr>
<td>CONTRACTOR</td>
<td>Vitali spa - Cisano Bergamasco (Bergamo)</td>
</tr>
<tr>
<td>PROJECT COST</td>
<td>817,720 € Structures, 748,862 € Road works &amp; landscaping</td>
</tr>
<tr>
<td>JOB ASSIGNMENT</td>
<td>Structural Preliminary Design</td>
</tr>
<tr>
<td>STATUS</td>
<td>Built</td>
</tr>
</tbody>
</table>
## Data Center, Telecom & Broadcasting

### Green Data Center
- **Location:** Ferrera Erbognone - Pavia (Italy)
- **Dimensions:** total 45,000 sqm
- **Period:** start 2010 - end 2013
- **Property:** Reorder srl
- **Architectural Project:** Design Architect: POP Solid Zoran e Dragana Minic
  Executive Architect: Starching
- **User:** ENI spa
- **General Contractor:** CMB
- **Project Cost:** 120,000,000 €
- **Job Assignment:** Full Integrated Concept Design
  Full Integrated Basic Design
  Full Integrated Detailed Design
  General Site Supervision
  Cost Control
- **Status:** In progress

### Television Broadcasting and Production Centre
- **Location:** Milan (Italy)
- **Dimensions:** total 130,000 sqm, offices 65,000 sqm
  TV studios 35,000 sqm, parkings 30,000 sqm
- **Period:** start Jan 2006 - end Jul 2008
- **Property:** SC3 Group, Santa Giulia spa, Risanamento spa
- **User:** Sky Italia srl
- **Architectural Project:** Byron Harford & Associates
- **General Contractor:** Colombo Costruzioni spa
- **Project Cost:** 220,000,000 €
- **Job Assignment:** Full Integrated Design Supervision
  Architectural Executive Design
  Architectural Constructive Design
  Project Management, Construction Management
  MEP Detailed Design, MEP Site Supervision
  Cost Control
- **Status:** Built and in use