Since 1979, the year when Sebino was founded, in 30 years of activity, the Sebino Group has designed installations, produced equipments and installed modern fire protection systems in Italy and in Europe, for industrial and civil installations.

This vast experience, combined with the constant update of the technology and products used, and with the steady growth of know-how and knowledge of the human resources involved in all stages of the process, from design to tests and commissioning of the installations, has enabled the Sebino Group to achieve levels of quality and reliability for its fire protection plants, which has positioned the Group among the market leaders.

The Sebino Group has installed fire protection plants and delivered fire protection products and equipments for:

- Industrial buildings and production Parks
- Power plants
- Logistic storages and logistic platforms
- Shopping Centers
- Banks and credit institutions
- Hospitals

A specific and unique experience has been achieved in designing and installing automatic wet sprinklers fire fighting systems for logistic storages and logistic platforms according to the following standards:

N.F.P.A. UNI APSAD VdS FM CNBOP NP086-05

A careful investment policy encouraged, over the past years, the technological and regulatory update of the Group, as well as the professional development and the specialization of its human resources, achieving in this way a consolidated and reliable Group structure, which is able to manage comfortably and firmly its activities both at national and international levels.

The Group is involved in the N.F.P.A (National Fire Protection Association) as a Member.

The Sebino Group operates in designing, producing and installing automatic systems for fire protection, having, as primary objective, the implementation of systems which represent the best and most adequate protection from fire hazards for the valued structures and goods of the client.

Each step of the process: from risk analysis to the start-up, through the choice of the equipments and components, and then to the use of innovative methods of installation, is led by the goal of providing a turn-key automatic fire fighting system of technological excellence and economic viability.

Our fire fighting systems are distinguished by:

- the careful general and detailed design of a fire fighting installation, according to the most updated technical standards, recognized and applied for each specific project. The technical department relies on a continuously updated and certified software and hardware structure in order to:
  - Support the correct design of the project;
  - Obtain and define in detail the installation lay-out;
  - Optimize the use of materials;
- the technical capabilities of our engineers to properly interpret and to effectively develop all UNI, European EN and American (NFPA) standards;
- the use of updated technologies in producing, assembling and installing the fire fighting systems;
- the installations performed by qualified and experienced staff directly employed by the Group;
- the use and installation of materials of proven quality and reliable performances;
- the special tests and inspections carried out on materials and components, to ensure reliability and durability;
- the constant improvements of all these products and of the quality tests and inspections in accordance with current, but continuously evolving standards.
Our work

The work of the Sebino Group can be summarized as the set of the following activities:

• **Risk analysis:** evaluating and selecting the most suitable system for active fire protection;
• **Preliminary design:** for tender stage and for execution, using customized CAD computer systems, in order to develop the designs for the analyzed fire protection installations;
• **Hydraulic calculations:** executed with specific software systems in accordance with the national and international standards;
• **Prefabrication:** executed in our workshop according to the highest standards and using automatic approved equipments;
• **Installation:** installing and starting-up all parts of the designed and prefabricated systems with technically specialized staff;
• **Testing and maintenance:** issuing certificates attesting the correct installation and periodical maintenance program in order to guarantee the perfect efficacy and functionality of the installed systems.

These activities are possible thanks to the synergy of different departments, which work and cooperate in line:

• **The Technical Department**
• **The Purchasing Office**
• **The Warehouse**
• **The Design and Production Scheduling Office**
• **The Mechanical Workshop**
• **The Electrical Workshop**

Design

The Sebino Group employs highly qualified staff, which under the technical department’s supervision, analyzes the best solutions, taking into account, as reference, the primary factors such as reliability and quality of the products to be installed and at the same time finding the best quality-price ratio.

The Sebino Group activity has always focused exclusively on fire protection systems, and therefore, by executing its numerous projects, it has accumulated a long and important experience, which represents the best “business card” for a high quality and reliable design for fire protection systems.

The design activities are of primary importance from the very first technical and commercial phases of a project:

- At the stage of fire risks analysis, in order to evaluate and select the best operative technical solution, for the active control of the risk;
- While elaborating the preliminary drafts, for the definition of the functional parameters, as well as for the specialized components of the project;
- While preparing the preliminary technical-commercial offer, which has to be, technically and commercially, clear, complete and correct.

The design becomes determinant and final in the next steps of the project:

- In the elaboration of an executive technical-commercial offer which, by using specialized software, can reach the detailed dimensioning of the fire protection system;
- In the validation of the project, based on norms and standards, by using specific software for the hydraulic calculations;
- In the preparation of the structural drawings for the prefabrication in the workshop, of the specific and distinctive components of the project;
- In the definition of the installation procedures and time schedule on site, from the system components until the final commissioning.

The Group’s abilities to design, to prefabricate and assemble in the workshop, to carry out the site installation, to test and to commission a “turn-key” system to the Client, refer mainly, but not exclusively, to the following types of Fire Protection Systems:

**Automatic water Fire Fighting systems** according to the following standards:

- **UNI-EN** (Italian Organization for Standardization)
- **VdS** (Vertrauen durch Sicherheit)
- **FM** (Factory Mutual)
- **NFPA** (National Fire Protection Association, USA)
- **APSAD** (Assemblée Plénière des Sociétés Assurances Dommages)
- **CNBOP** (Centrum Naukowo-Badawcze Ochrony Przeciwpozarowe)
- **NP086-05** (Romanian Standard)
- **SR-EN** (Romanian Standard for Uniformity)

**Fire fighting Pumps Station** according to the following standards:

- **UNI-EN** (Italian Organization for Standardization)
- **VdS** (Verband der Sachversicherer)
- **NFPA** (National Fire Protection Association, USA)
- **APSAD** (Assemblée Plénière des Sociétés Assurances Dommages)
- **CNBOP** (Centrum Naukowo-Badawcze Ochrony Przeciwpozarowe)
- **NP086-05** (Romanian Standard)
- **SR-EN** (Romanian Standard for Uniformity)

**Automatic Fire Fighting systems**:

- **Automatic Sprinkler Fire Fighting System**
- **Automatic Foam Fire Fighting System**
- **Automatic Deluge Fire Fighting System**
- **Hydrants Fire Fighting System**
- **Automatic Aerosol Fire Fighting System**
- **Automatic Carbon Dioxide, Chemical and Inert Gas Fire Fighting System**
- **Automatic “Water Mist” Fire Fighting Systems**
Prefabricated pipes <FM> approved

The Sebino Group, in accordance with its own tradition of dynamism and innovation, brings out on the European market a complete line of prefabricated <FM> Global approved pipes.

It is a product line which contains cross main till 8” diameter with threaded or grooved branch outlet till 3”, secondary branch lines of diameters from 1” to 3” with threaded insertions from ½” to 1”, executed with welded or seamless pipes, according to the EN10255, EN10216, EN10217 norms.

This line of prefabricated pipes is produced by a completely automated prefabricating and manufacturing process, designed around a robotic cell, with high levels of production capacity and welding quality.

A manufacturing workshop fully automated, capable to satisfy different types of requirements for modern fire fighting systems.

The production phases of the continuous line of automatic production processes are:

- Selection of the raw materials;
- The metal surface preparation by sandblasting;
- The positioning, marking and grooving of the ends of the pipes, to size;
- Drilling in design position;
- The positioning and welding of the threaded insertion;
- 100% Quality control of the weldings with penetrating liquids;
- Polishing and cleaning of the welded surface;
- Painting at final dimension with electrostatic powder;
- Drying in ovens;
- Manufacturing for the mounting in the site.

Construction

The raw material

The carbon steel pipes, to be used in this production process, are rigorously Made in Europe, meaning not only the Manufacture Certificate, but the actual production of the pipes. Following the same policy, for the threaded inserts, only FM approved products, made in USA, are used. The purpose of this selection process, is to eliminate from the very beginning the risks of imperfections.

The metal surface preparation

The metal surface preparation is essential to guarantee the quality of the welding processes and a good adherence of the paint on the metallic surface of the pipes. The best metal surface preparation is obtained through the sandblasting and steel blasting process.

The preparation of the surfaces is the first step of this continuous process, and it is taken before any welding in order to avoid compromising the quality of welding, because of the rust or other types of deposits, causing porosities or other unacceptable defects.

Automatic prefabrication line

For the production of the secondary branches, manifolds and risers, it is used a robotic line of prefabrication which integrates all the processes and mechanical works: grooving, cutting and welding.

The pipe movement is digitally controlled to ensure the maximum precision of positioning the outlets on the pipes. The 100% digital control of the welding parameters allows to obtain weldings of high quality without defects or inclusions.

The production line has been created, so that enables us to obtain prefabricated secondary branches, manifolds and risers with lengths superior to the classic length of 6 meters, reaching lengths of up to 9 meters or intermediate lengths.

Extended quality control

In addition to the automatic production process, the quality control of 100% of the weldings, significantly reduces the risk of subsequent production faults. All weldings are tested by applying penetrating liquids. The lowest infiltration of the fluorescent liquid at the welds joining, imply the rejection of the prefabricated component and
Installation

The installing phase of an automatic fire protection system is fundamental for the mounted installation’s quality and for its reliability. During its thirty years of operation, the Sebino Group managed to acquire considerable experiences and capabilities, in the crucial phase of implementation of the system on site, thus creating a large group of direct partners, which are key to the success of the company, in its process from the design of the project to final starting-up and commissioning.

Using its own resources, the Sebino Group is able to execute the installation of its own fire protection systems, starting from pre-fabricated and pre-assembled components in its workshop, continuing with its procedures and methods of plant erection as scheduled and defined at the project design stage.

Services

The services provided by the Group, both for the commissioning and maintenance of a system during its term of use, are provided, upon request, only and exclusively on systems and plants designed, built and commissioned by the Sebino Group itself.

Commissioning

Sebino Group provides operating and maintenance manuals, including drawings, in various languages, if required. It also provides written procedures for most common faults identification and lists of spare parts. During the commissioning of an installation designed by the Group, the operating data of the installation are recorded, verified and analyzed with the client, prior to the acceptance and the transfer of the system under Client’s responsibility.

Maintenance service

The Sebino Group, in performing the after sale maintenance service, reserves a special attention to:
• The timeline and accuracy for the planned maintenance interventions;
• The immediate availability of spare parts, in order to guarantee the service continuity of the fire protection installation;
• The in-depth knowledge of each served fire protection installation, by qualified and authorized operators;

Automatic electrostatic painting line

Once the prefabricated pipes are produced, tested and cleaned, they enter into the next level: the robotic electrostatic powder painting line. The paint is powder (epoxy, epoxy/polyester or polyester) with electrostatic application and recuperation of the product in excess.

The module with the suspended prefabricated pipes is then placed, in a high temperature oven, which fixes permanently the paint on the tubes.

The final result is a prefabricated and permanently painted pipe, sustainable and stable over time, unlike the traditional electrostatic pre-painting processes which for physical-chemical reason cannot ensure the adherence on the metal surface over time.

The minimum thickness of the coating on the metal surface is of 60 micron, but on request, it can reach 300 micron.

Engineering and installation support

Each prefabricated piece is identified by its own aluminum adhesive label, containing the identification marks of each project: logo, client name, identification of the component, bar code.

Each on-site delivery includes the prefabrication project, consisting in the general assembling layout, key instructions detailing the assembling sequences, and an analytical file for each component, containing constructive, dimensional and technical data.

The full production undergoes according to ISO 9001:2008 and the full traceability is guaranteed by the marking and labeling of each prefabricated piece.
Logistic storages and logistic platforms

Year Project Location Standard
1992 KTN Italia Cremona (CR) NFPA
1995 Expansione 11 Srl Carisio (VC) NFPA
2004 Seriesi 2010 Torino (TO) NFPA
2008 Gazley Italia Srl - Lamborghini S.p.A. San Bolognese (BO) NFPA
2009 Buondi Comrèio (MI) UNI
2009 Diesel Breganze (VI) UNI
2009 Wildman Srl Busto Garolto (MI) UNI
2009 Gazley Italia Srl - Benetton Spa San Moritz (BL) NFPA
2009 Ar-teco SpA Grumello del Monte (BG) NFPA
2009 Renault Srl San Colombano A/L (MI) UNI
2009 Immobiliare S. Moro Srl Serravalle (MI) UNI
2010 FAP Investments Ceva Incroci S.P.A. Parma (PC) UNI
2010 Bennet SpA Busto Garolto (MI) UNI
2010 Polimi Group Distribuzione S.L. Cernusco S/N (MI) UNI
2010 Gazley Italia Srl Monticello d'Ongina (PC) NFPA
2010 Michelin Turin (TO) NFPA
2010 FAP Investments Ceva Pogonio 2 (BG) NFPA
2010 DML Azzano S. Paolino (BG) NFPA
2010 Toys R Us Milan (MI) NFPA
2011 Bulberry - Centro Logistico Piacenza (PC) NFPA
2011 Wall-cor Cremona (CR) UNI
2011 Alstom Mozzate (CO) UNI/NFPA
2011 DML Verona (VR) NFPA
2011 Basf Cesano Maderno (MB) UNI/NFPA
2011 Pelma SpA Rasiro Bresciano (BS) UNI
2011 Lovable Grassoble (BG) UNI
2011 Redico Concorezzo (MI) UNI
2011 Tiacor srl Placenza FM
2012 Alno Business Park Srl Busto Garolto (MI) NFPA
2012 Alno Business Park Srl San Bolognese (BO) NFPA
2012 NO Logistics Italia srl Cremona (CR) UNI/NFPA
2012 FERCAM srl Placenza UNI/NFPA

Shopping centers

Year Project Location Standard
2008 Ilea Store Padova (PD) UNI/NFPA
2008 Fornitore Brescia (BS) UNI
2008 Udine Udine (UD) UNI
2009 Supermercato Di Brescia (BS) UNI
2010 Saturn Catania (CT) UNI
2010 Stazzano Busto Garolto (MI) UNI
2010 M1050 World Martignano (BG) UNI
2010 Bennet SpA Busto Garolto (MI) UNI
2010 Polimi Group Distribuzione S.L. Serravalle (MI) UNI
2011 Lombardini Verona (VR) UNI
2011 Quincinetto Bari (BA) UNI
2011 Gamma Castiglione (PC) UNI
2011 Saturn Salerno (SA) UNI
2011 Bennet Busto Garolto (MI) UNI
2011 Lombardini C. C. (PC) UNI
2011 Le Bolle Serravalle (MI) UNI
2012 Center Comm Citta del Tempi Placenza UNI
2012 Family Stradella (PV) NFPA
2012 Family Cafe de Seltimo (MI) UNI/NFPA
2012 Family Lini (TO) NFPA

Industrial

Year Project Location Standard
2008 Fornitore Brescia (BS) UNI
2008 Bresciano (BS) UNI
2008 Verona Brio (VI) UNI
2009 Antate (BG) UNI
2009 Assago (MI) UNI
2010 Aluvercoli (BG) UNI
2011 Holz (BG) UNI
2011 Tecnocenter (BG) UNI
2012 FER Pallets Bergamo (BG) UNI

Hospitals and Hotels

Year Project Location Standard
2010 Ospedale di Bergamo Bergamo (BG) UNI
2011 Dellagio (BG) UNI
2011 University of Milan (MI) UNI
2011 MGI Coutier (BG) UNI
2012 Family Market spa Bergamo (BG) UNI
2012 S. Martino Siccomario (PV) UNI

References

Year Project Location Standard
2008 KTN Italia Cremona (CR) NFPA
2010 A1 Business Park Turin (TO) NFPA
2011 Mega Image (BG) NFPA
2011 A1 Business Park Bergamo (BG) NFPA
2012 A1 Business Park Milan (MI) NFPA
2012 A1 Business Park Milan (MI) NFPA
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