



# BUILD SMART

Emmedue Advanced Building System



Advanced  
Building  
System



# EMMEDUE ADVANCED BUILDING SYSTEM

AN INNOVATIVE BUILDING SYSTEM UNIQUE IN THE WORLD



For over 40 years, Emmedue has been offering new entrepreneurial opportunities providing a technological and innovative solution: the Emmedue Advanced Building System.

The Emmedue Advanced Building System allows earthquake-resistant and thermal insulating structures to be built with a great time- and cost-effectiveness. This is possible thanks to the efficiency achieved in the construction site thanks to the fast and easy assembly of the Emmedue Panel.

Emmedue offers the technology to apply the Emmedue Advanced Building System by providing a complete range of machines for the production of the Emmedue Panel.



**+70**

production plants  
in more than 30  
countries



**+100**

tests conducted  
by certified  
laboratories



**+30**

international  
patents obtained  
worldwide



**+1 000 000**

buildings carried  
out with the  
Emmedue System

“WELCOME TO THE FUTURE  
OF CONSTRUCTION”

*Restore hope and confidence thanks to an innovative project.*  
Therapeutic Pools for La Esperanza  
San Juan, Puerto Rico

# BUILDING THE FUTURE

WITH THE EMMEDUE ADVANCED BUILDING SYSTEM



The Emmedue Building System is an innovative and unique building system, alternative to traditionals, with a history of remarkable success of over 40 years worldwide.



The core of the System is the Emmedue Panel, that is industrially produced. It is made of a slab of expanded polystyrene enclosed by a double-galvanized steel mesh, and it is completed on site with two layers of shotcrete. The panels can be produced in different shapes and cover the entire range of elements necessary to build any structure. Moreover, the height and thickness of the Emmedue Panel can be customized to fit the requirements of the projects.

## EMMEDUE PANELS: A COMPLETE RANGE OF PRODUCTS

### SINGLE PANEL



For bearing walls of buildings up to 4 floors; for walls, partitions, claddings, floors and roofs of any building.

### CURVED PANEL



For particular building requirements. It allows architects to be more creative and test new shapes.

### FLOOR PANEL



For floors and roofs with reinforced concrete joists with great advantages in terms of weight, insulation and assembly speed.

### LANDING PANEL



For landings and bi-directionally reinforced plates. It gives continuous insulation to the intrados of the panel.

### STAIR PANEL



For the rapid construction of a lightweight and resistant staircase.

### DOUBLE PANEL



For reinforced concrete walls of buildings up to 20 floors.

# ADVANTAGES

## QUALITY STANDARDS AND INTERNATIONAL APPROVALS



The modularity of the Emmedue System favors absolute design flexibility and high degrees of integration with other building systems. The lightness of the Emmedue Panels makes them extremely easy to handle, assemble and use.



THERMAL INSULATION



RAPID INSTALLATION



CYCLONE RESISTANCE



INTEGRABILITY WITH OTHER BUILDING SYSTEMS



WIDE SELECTION OF FINISHES



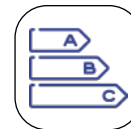
VERSATILITY



COST EFFECTIVENESS



FIRE RESISTANCE



SUSTAINABILITY AND ENERGY EFFICIENCY



EARTHQUAKE RESISTANCE



BLAST RESISTANCE



LOAD RESISTANCE

Emmedue has always focused on quality. In fact, the company conducts tests and trials on panels and prototypes on a regular basis obtaining certifications and approvals issued from recognized institutions worldwide. Emmedue operates in a certified quality system according to the standard UNI EN ISO 9001 and UNI EN ISO 14001.

### EPS sustainability



**IT IS SAFE:** it does not release any toxic substances.



**IT IS RECYCLABLE:** scraps are directly recycled in the plant and put into the production again.



**SELF-EXTINGUISHING:** once the main cause of the fire is eliminated, the material does not produce flames, nor does it continue to burn.



**IT IS NON-TOXIC:** it is not harmful to the health.

### With Emmedue you can:

Reduce the CO<sub>2</sub> emissions by up to 40% during the building construction.

Reduce the CO<sub>2</sub> emissions by up to 65% during the use of the building.

Build any kind of construction without thermal bridging.



# EMMEDUE PRODUCTION PLANT

## A SAFE AND SUSTAINABLE BUSINESS



Emmedue designs and provides modular plants with diversified production capacities to meet the needs of its customers and the market demands.

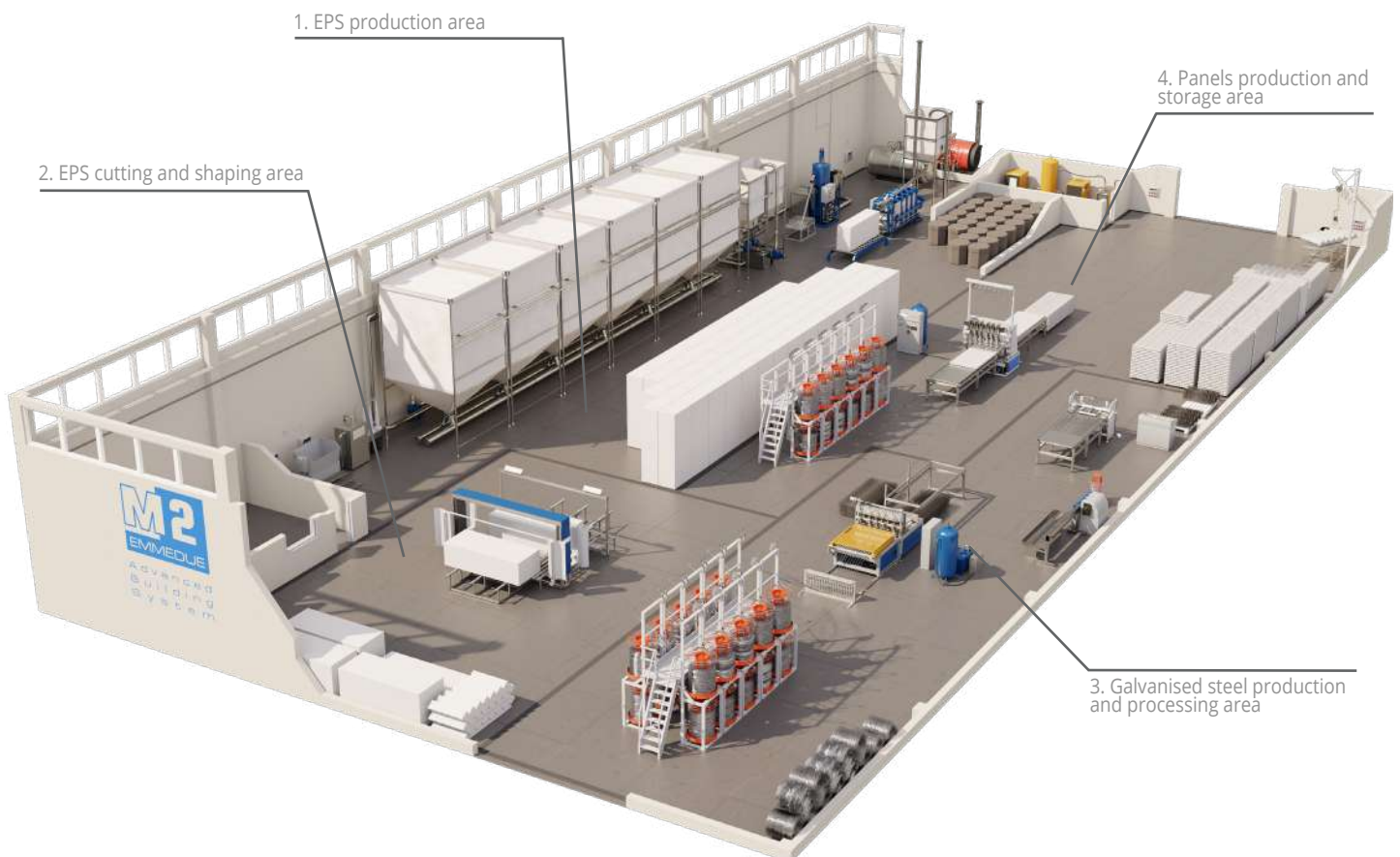
For over 40 years, Emmedue has been offering tailor-made solutions for the manufacturing of the entire range of Emmedue panels to meet the special requirements of contractors and/or developers all around the world. All the Emmedue plants feature high production efficiency and guarantee the maximum respect of safety and quality standards, while using the most innovative IT-based control systems.

### A whole range of highly developed technological solutions

The Emmedue plants are integrated into a digital ecosystem developed by Emmedue which includes M2 Synapse and M2 Dashboard. These highly technological systems ensure a full control over the production cycle of the Emmedue panels and accessories.

Moreover, they are designed to communicate with M2 PanelCad, the innovative software developed by Emmedue to offer designers a high-level solution for architectural designs of buildings realised with the Emmedue panels.

## A HIGHLY TECHNOLOGICAL PRODUCTION PROCESS



# THE EMMEDUE PACKAGE

EXPAND YOUR MARKET OPPORTUNITIES WITH EMMEDUE

Emmedue accompanies its clients on a new business path.



## A UNIQUE PACKAGE OFFERING UNRIVALED BENEFITS

By choosing Emmedue, entrepreneurs can provide their markets with solutions of high quality standards, improve their margins and grow the base of satisfied customers, always relying on a consolidated business model and on Emmedue's complete support.

In fact, Emmedue provides its customers with a complete Package that includes the production plant of the Emmedue panels, the business and technical Know-How and specialized services to start this new business. A unique Package that offers unrivalled benefits: supply of the turnkey plant, executive layout of the installations, maintenance and operational training, professional assistance by Emmedue engineers and technicians and through the Emmesynergy online platform.

Thanks to Emmesynergy, the e-learning platform through which Emmedue shares all the expertise acquired over the years, Emmedue is now even closer to its customers.

Emmesynergy was designed to provide technical content and specialized training on both the machinery and the Emmedue Advanced Building System.



### All the Emmedue Know-How just a click away

The Emmesynergy platform was created to provide continuous assistance to Emmedue customers through simple and functional tools with complete 24/7 global accessibility.

The platform offers full training courses enriched with detailed images and operational videos that allow an immediate understanding of the content.

### A world of services all around you

Emmesynergy provides:

- full access to training courses updated in real time;
- professional and specialized support for the most common problem solving activities;
- maximization of the efficiency by minimizing downtime thanks to online assistance on the machines.

# APPLICATIONS

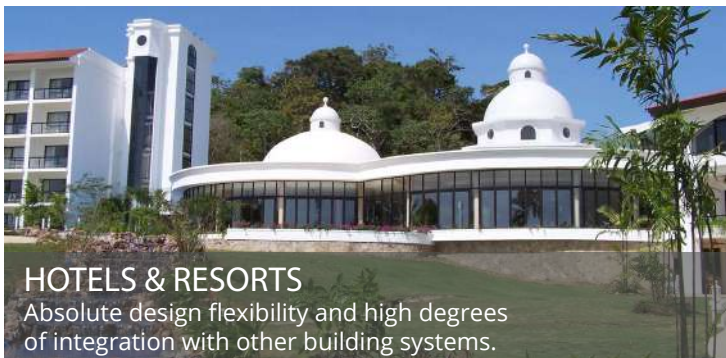
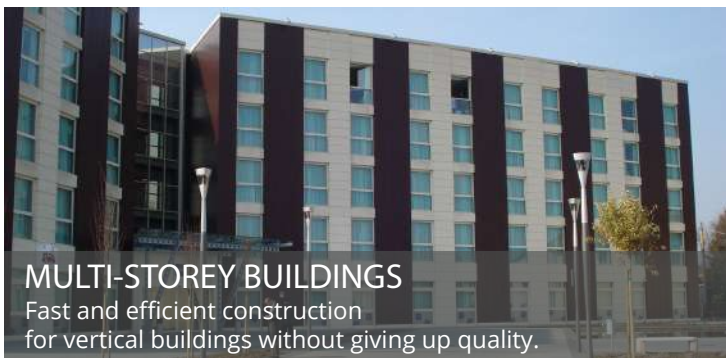
AN INNOVATIVE SOLUTION FOR ALL TYPES OF BUILDINGS

.....

▼

The incredible variety of worldwide projects built with the Emmedue System, is the definite proof of the potential of this building system.

The absolute versatility and adaptability of the Emmedue Advanced Building System to the most diverse territorial needs allow to build an unlimited range of structures, from massive projects of social housing to affordable and luxury houses, industrial sheds and public buildings, even in adverse working conditions, earthquake-prone areas and climate extremes.





EMMEDUE® Via Toniolo, 39/b - Z.I. Bellocchi 61032 Fano (PU) Italy

Phone: +39 0721 631365

***[www.mdue.it](http://www.mdue.it) - [info@mdue.it](mailto:info@mdue.it)***

