BUILDING
SYSTEMS

baupanel®
system

Efficient Building

Baupanel®System

The sustainable integral building solution, used by many architects and prestigious builders in Spain & internationally.

Accept no imitations.

Baupanel® System is committed to almost zero consumption by ECCN in the structure of homes and buildings of any height.

Build, reform, insulate your home

Baupanel® System is a construction system with great mechanical capacity that allows constructions that can withstand earthquakes and hurricanes and at the same time has high thermo-acoustic insulation, high fire resistance and earthquake resistance.

ETA 16/0432 · Casa Pasiva Passivhaus Institute · plus 558R/17 · CE · CSIC Consejo Superior de Investigaciones Científicas · CTE Código Técnico de la Edificación · UEAtc · Instituto Eduardo Torroja · eurocodes

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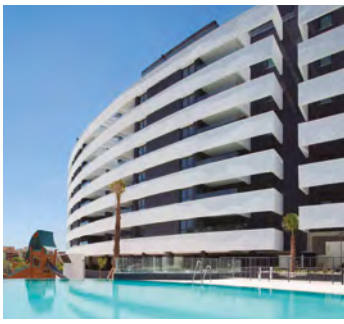
SPAIN - PORTUGAL - ANTIGUA - GHANA

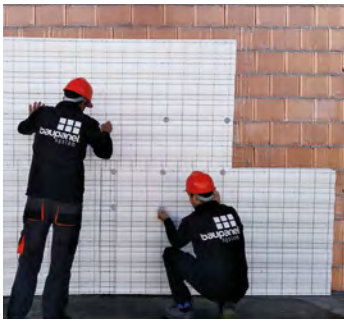
Homes & Buildings

Building Enclosing



Industrial & Comercial

Thermal Envelope



Rehabilitations

The Building System

Baupanel® System

Home built in Salgados, Portugal

Building System

Baupanel®System

Home built in Monachil, Granada, Spain

Baupanel System

Based on a set of structural panels, the Baupanel® System is an integral construction system, resistant to impacts, seismic-resistant, fireproof and thermo-acoustic.

Baupanel® System offers an efficient construction solution with annual energy savings of up to 50kW-h/M2. The Baupanel® System complies with the regulations of the Structural Code, CTE and Eurocodes, and also has numerous construction certifications both in Spain and in other countries, such as the DIT plus Technical Suitability Document and CE marking, granted by the Institute of Sciences of the Eduardo Torroja Construction.

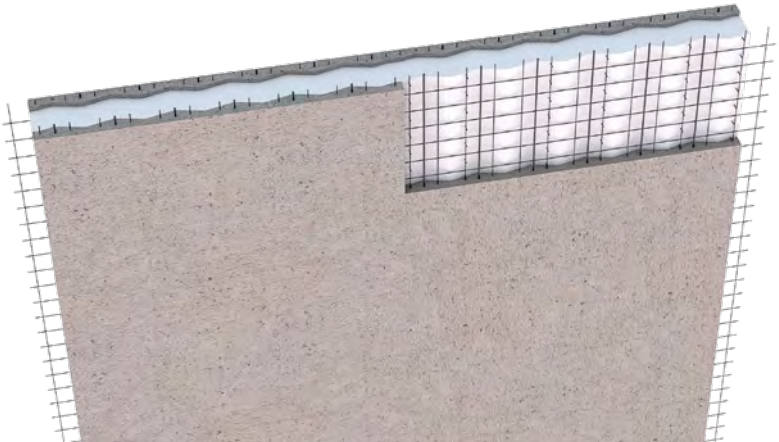
The Structural Panels

Each element is made up of a 3D structure of high-resistance galvanized steel, made up of two flat meshes strongly interconnected by multiple perpendicular bars (connectors).

The space that remains between the steel meshes is occupied by the EPS insulating plate with characteristics and thicknesses appropriate to the needs of the project.

This set is completed on site by applying two layers of concrete of a predetermined thickness, either by pneumatic projection or by pouring into formwork.

An energy saving of up to 50kW-h/M2 per year



The constructive simplicity allows a significant reduction in construction times with respect to the traditional system since with a single element the structure, facades, partitions, floors, roof, lintels, braces and thermo-acoustic insulation are formed.

As a result of its low own weight (up to 50% less than the traditional system), the necessary volume of foundation is reduced and, therefore, significant savings in materials and labor are obtained.

By linking the panels in a monolithic way, according to the layout of the walls and floors, without the interposition of joints of any kind, a super three-dimensional structure of reinforced concrete is generated that allows all kinds of architectural works to be carried out, from single-family homes to multi-story buildings. floors.

The concrete elements hollowed out by the volume of the insulating plate provide a combination of very high structural capacity, low own weight and great thermo-acoustic insulation.

The system can withstand projectile impacts, explosions, hurricanes and fires. For this reason, it also has many applications in both civil and industrial works.

With regard to safety in the event of fire, its elements are certified with a fire resistance of up to 150 minutes, making it especially suitable for use as a firebreak element in high-risk areas.

In addition, the very low thermal transmittance provided by the elements of the system makes them optimal for building bioclimatic homes and Passivhaus. The highest ratings on the energy scale (A, B and Null Consumption) can very easily be achieved.

The System Applications

✓ Modular homes, luxury villas, semi-detached or detached homes, with no design or shape limits.

✓ Buildings without height limitations, 100% integral, structures and slab walls.

✓ Building enclosures of traditional structures, facades, without limitation of heights. Avoiding thermal bridges between the steps of slabs and columns.

✓ Thermal insulation, exterior and interior, with BauSATEi® system that provides a thermal shock-resistant enclosure for buildings with enclosures executed with traditional system.

✓ Rehabilitations and extensions of historic buildings with adaptation to current use.

✓ Diving walls resolution with high level of acoustic insulation.

✓ Solutions for internal reinforcements and cavity walls.

✓ Ventilated facades.

✓ Retaining walls.

✓ Curved shapes.

✓ Swimming pools

✓ Ornament elements for facades

✓ Massive industrialized construction with recoverable concrete formwork.

✓ Combination with other construction systems such as metal or concrete structures, prefabricated, etc.


School in Portugal


Bar in Estepona, Málaga, Spain


Mushroom Museum in Netherlands

System Advantages

Added value for your construction projects

Lightness and speed

Lightness

Ease of transport and installation. The weight per m2 of panel before the application of the concrete depends on the type of panel, and ranges between 3.5 kg/m2 & 5 kg/m2 . This makes it possible for only one operator to easily move more than 3m2 of panel.

Fast Installation

The reduction of the execution time of a work compared to other construction methods can be up to 50%.

Insulation & resistance

Thermal insulation

The U value of the total thermal transmittance of Baupanel® System composed of 4 cm thick EPS core with a density of 15 kg/m3 plus a 41 mm thick concrete layer on both sides (total thickness 12 cm) is 0.77 W / m2K. If the wall were made with an EPS core 8 cm thick (density 15 kg / m3), the thermal transmittance U would be 0.42 W / m2K. These levels of thermal insulation are much higher than those of traditional building enclosures. This translates into an energy savings of almost 40%, both for heating and cooling cycles.

Aislamiento acústico

A single panel with a 41 mm layer of concrete on each side provides acoustic insulation of up to 40.7 dB (A) depending on the thickness of the panel. When higher values are required, we use our BauCUSTiC® panel, which allows us to exceed 61 dB (A).

Structural resistance

The laboratory tests carried out at the Eduardo Torroja Institute in Spain, as well as others carried out internationally, have demonstrated the great structural capacity of Baupanel® System.

The loads in buildings are normally distributed through linear elements (beam-pillar frames), while with Baupanel® the load is distributed over the surface of all the elements of the structure generating much lower voltages.

Fire resistance

The EPS used in the Baupanel® System is Class III, self-extinguishing type E; that does not spread flames. Fire resistance tests carried out, for example, on panels with an 8 cm core have given values greater than 120 minutes, maintaining tightness to flames, smoke and gases, maintaining complete integrity.

Seismic resistance

The latest laboratory tests carried out at the Eduardo Torroja Institute (2017-2018) have shown the ability to resist a vertical force equivalent to a 10-story building combined with the horizontal actions of an earthquake of magnitude > 10 on the Richter scale, exceeding by more than 5 times the maximum seismic acceleration of the Spanish regulations.

Hurricane resistance

Baupanel® System buildings located in areas with high hurricane risk have demonstrated a great capacity to withstand the most devastating winds, such as Category 5 hurricanes.

Envelope tightness

Increases the tightness necessary to control the energy demand of the building, according to the CTE DB-HE regulations.

Saves the direct cost of execution of work

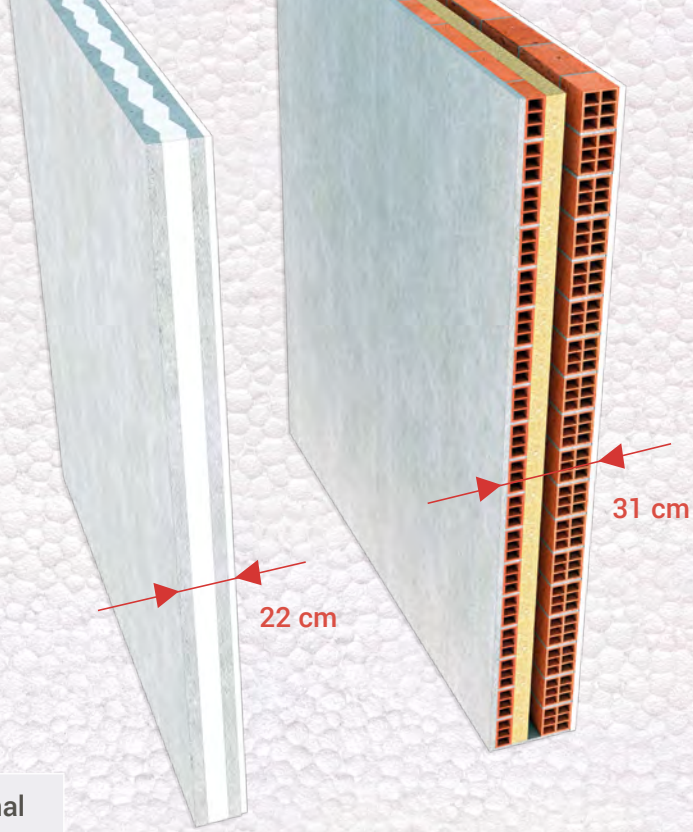
Cost savings

The use of the Baupanel® System translates into a real advantage for users and for construction companies, since it offers many economic benefits compared to traditional construction methods: cost savings derived from construction items; execution time; combination of two elements in one: structure and thermal insulation.

Greater Useful Surface

Higher profitability in the sale per M2

Also of great importance is the increase in the useful area of the house built with Baupanel® System compared to a traditional one. For the same total constructed area, with Baupanel® the useful area can be increased by up to 5%. This is because traditional walls are thicker than Baupanel® walls. It is noteworthy that Baupanel® is the only construction system with which single-leaf façades are obtained that meet the most demanding functional requirements of national and international regulations.



Comparison of Baupanel® wall and traditional wll:

	Baupanel®	Traditional
Thickness	22 cm	31 cm
Thermal transmittance (U)	0,26 W/m² K	0,58 W/m² K

Energy savings and respect for the environment

Energy Savings

For the purposes of the Energy Certification of Buildings, which is a requirement derived from Directive 2002/91/EC, and Directive 2010/31/UE, Baupanel® System is an efficient construction system that allows achieving the maximum energy rating. [Class A] at an affordable price. This is due to its enormous thermal insulation, which constitutes an added value both for developers and for end users of the buildings, who will see their energy consumption bills for air conditioning reduced.

Baupanel® System has as its main component expanded polystyrene (EPS), an efficient, effective thermal insulation material that plays an important role in reducing CO2 emissions to the atmosphere, making a very positive contribution to the decrease in global warming.

In the production of the EPS CFCs or HCFCs are not used as foaming agents, so that their manufacture does not cause any damage to the ozone layer.

Throughout the lifetime of the building made with Baupanel® System, its external energy input needs are drastically reduced, resulting in a lower consumption of fossil fuels, which in turn leads to a lower emission of CO2 into the atmosphere.

Properties of Polystyrene Expanded (EPS)

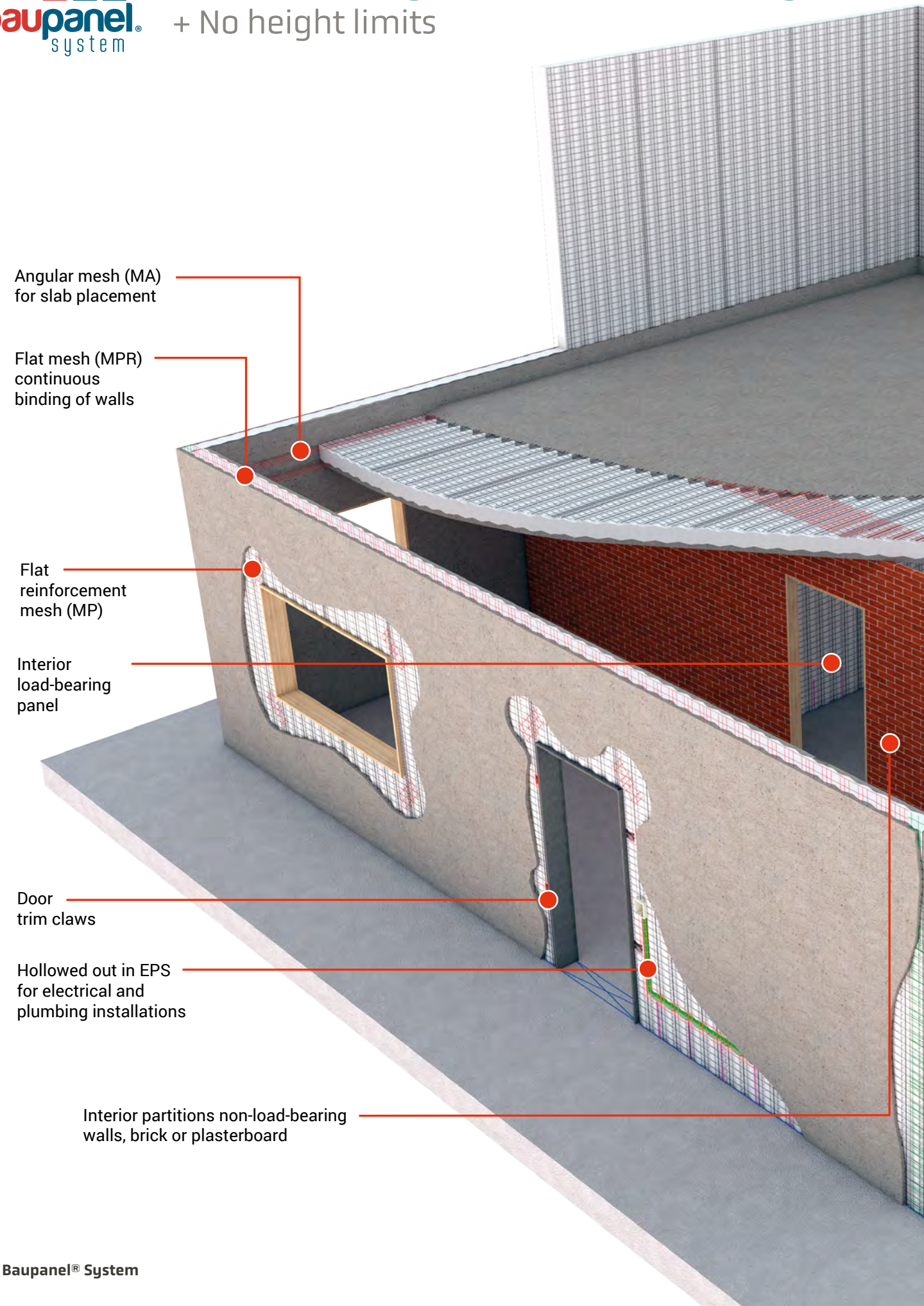
The expanded polystyrene used for the Baupanel® System panels is Class III, self-extinguishing type E; that does not spread flames.

Expanded polystyrene is a biologically inert, non-toxic and stable material. It does not contribute to the formation of methane gas nor does it contribute any other type of potential greenhouse gases. In addition, their residues do not pose any risk of contamination to groundwater.

Expanded polystyrene is 100% recyclable. During the production of the Baupanel® System panels, practically no EPS waste is produced since the little waste resulting from the cutting of blocks is recycled directly in the same production plant.

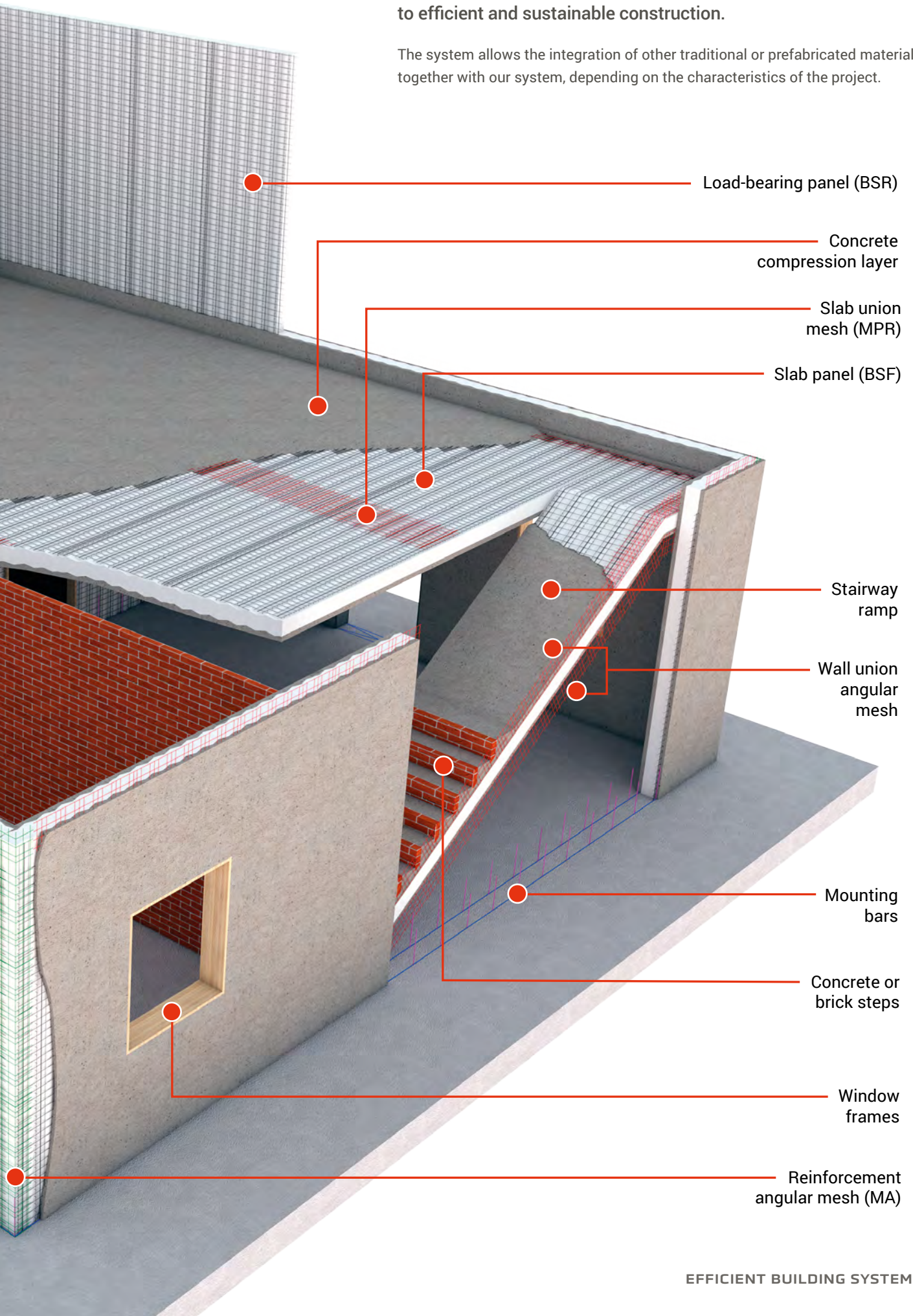
Versatility and Flexibility

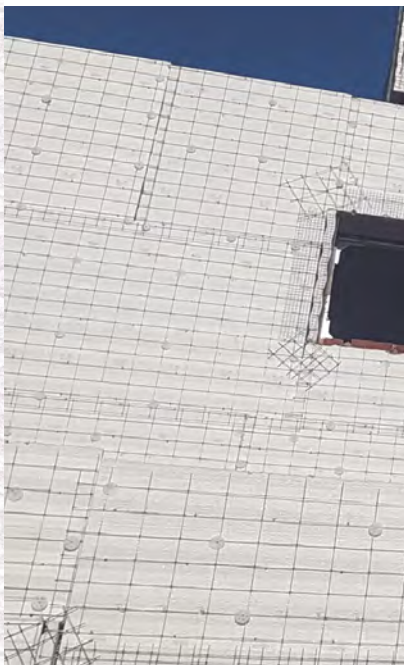
+ No height limits



Baupanel® System is a versatile system that allows flexible and creative architecture, achieving more economical buildings, linked to efficient and sustainable construction.

The system allows the integration of other traditional or prefabricated materials together with our system, depending on the characteristics of the project.



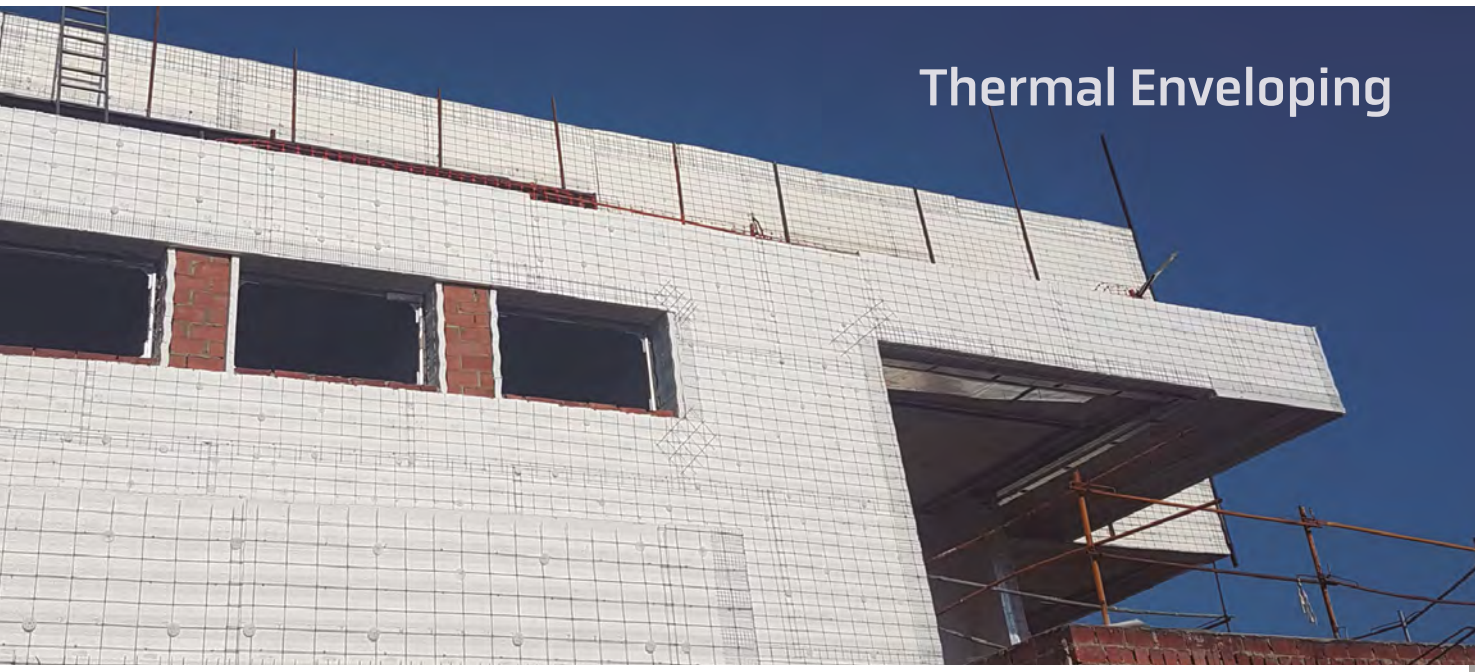


Building Solutions

Baupanel® System


Integral Building


Building Enclosings


Thermal Enveloping

Integral Building System

Building Solutions

Home built in Madrid, Spain

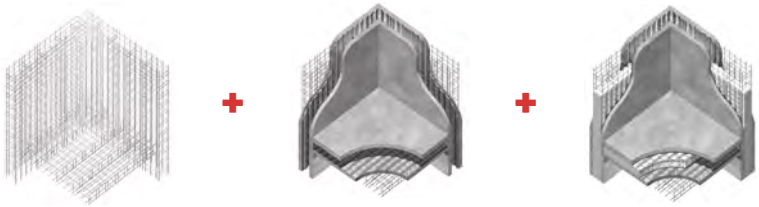
Three-Dimensional Structures of Reinforced Concrete

The integral building with Baupanel® System, allows great mechanical capacity in the construction of houses and buildings with almost zero consumption.

The constructive simplicity allows a significant reduction in construction times with respect to the traditional system since with a single element the structure, facades, partitions, floors, roof, lintels, braces and thermo-acoustic insulation are formed.

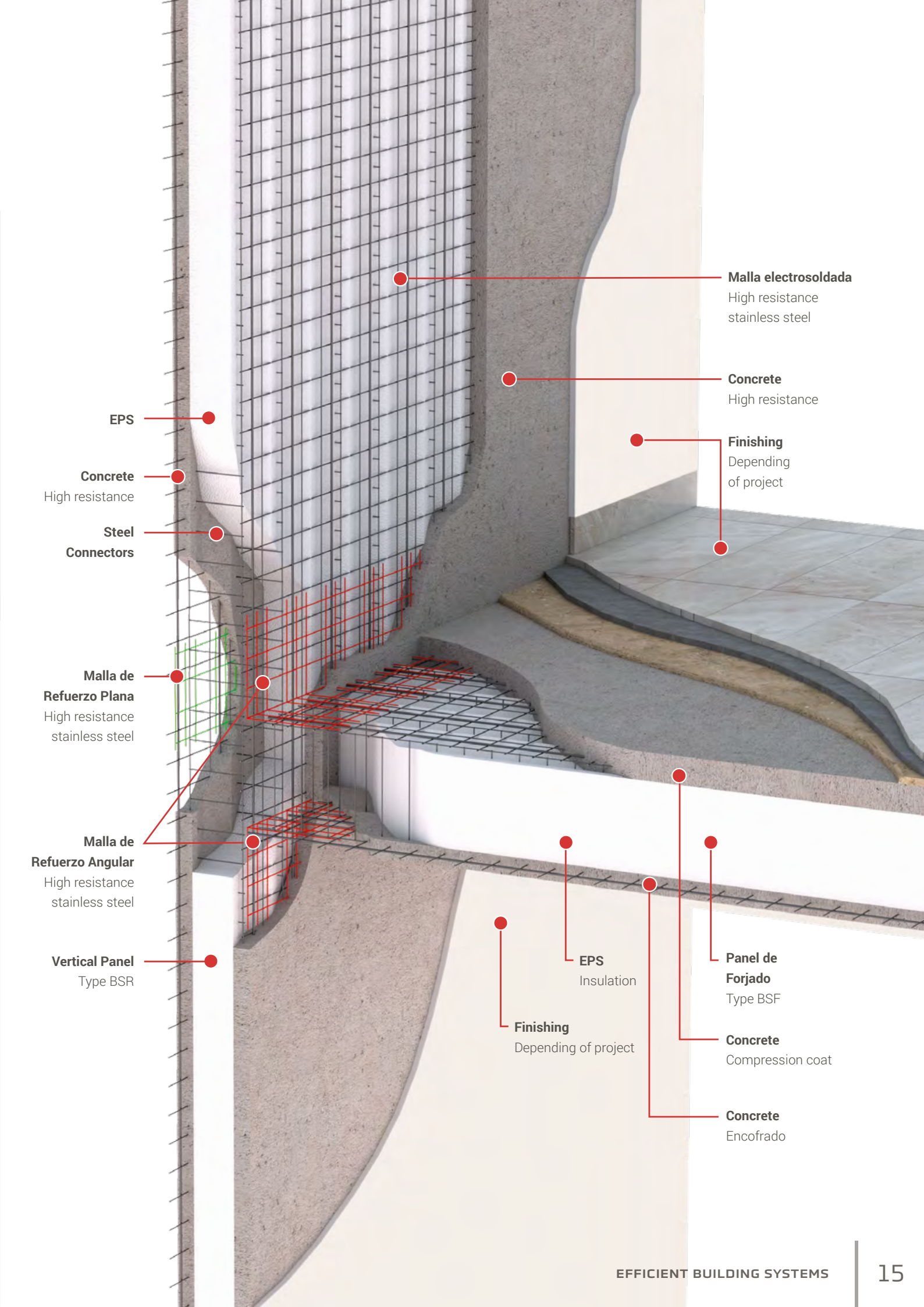
As a result of its low own weight (up to 50% less than the traditional system) the necessary volume of foundation will be reduced and therefore a notable saving of materials and labor will also be obtained in these tasks.

Baupanel® System offers an efficient construction solution with annual energy savings of up to 50kW-h/M2.



- ✓ Integral construction system
- ✓ Execution work time reduction
- ✓ Reduction of indirect costs
- ✓ Lightness and easy installation structural strength
- ✓ Greater useful surface
- ✓ Best energy rating
- ✓ Elimination of thermal bridges
- ✓ Thermo-acoustic insulation
- ✓ Design flexibility
- ✓ Superior structural strength
- ✓ Earthquake resistant
- ✓ Fire resistance

Build your home efficiently

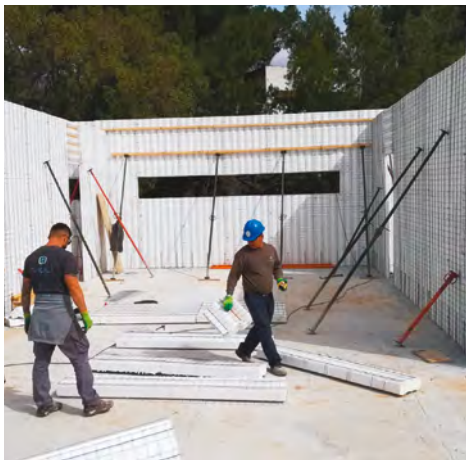

Malla electrosoldada
High resistance stainless steel
Concrete
High resistance
Finishing
Depending of project
EPS
Concrete
High resistance
Steel Connectors
Malla de Refuerzo Plana
High resistance stainless steel
Malla de Refuerzo Angular
High resistance stainless steel
Vertical Panel
Type BSR
EPS
Insulation
Finishing
Depending of project
Panel de Forjado
Type BSF
Concrete
Compression coat
Concrete
Encofrado

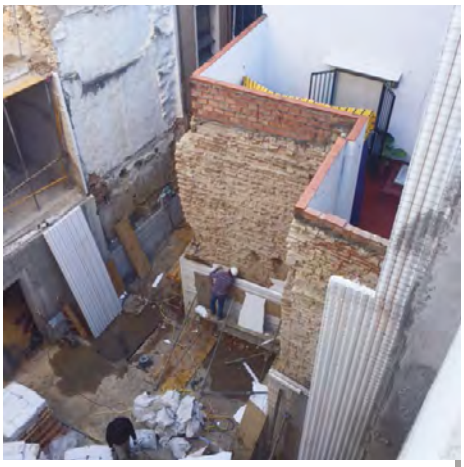
Integral Building System

Sample of Projects

Home built in Ibiza, Spain

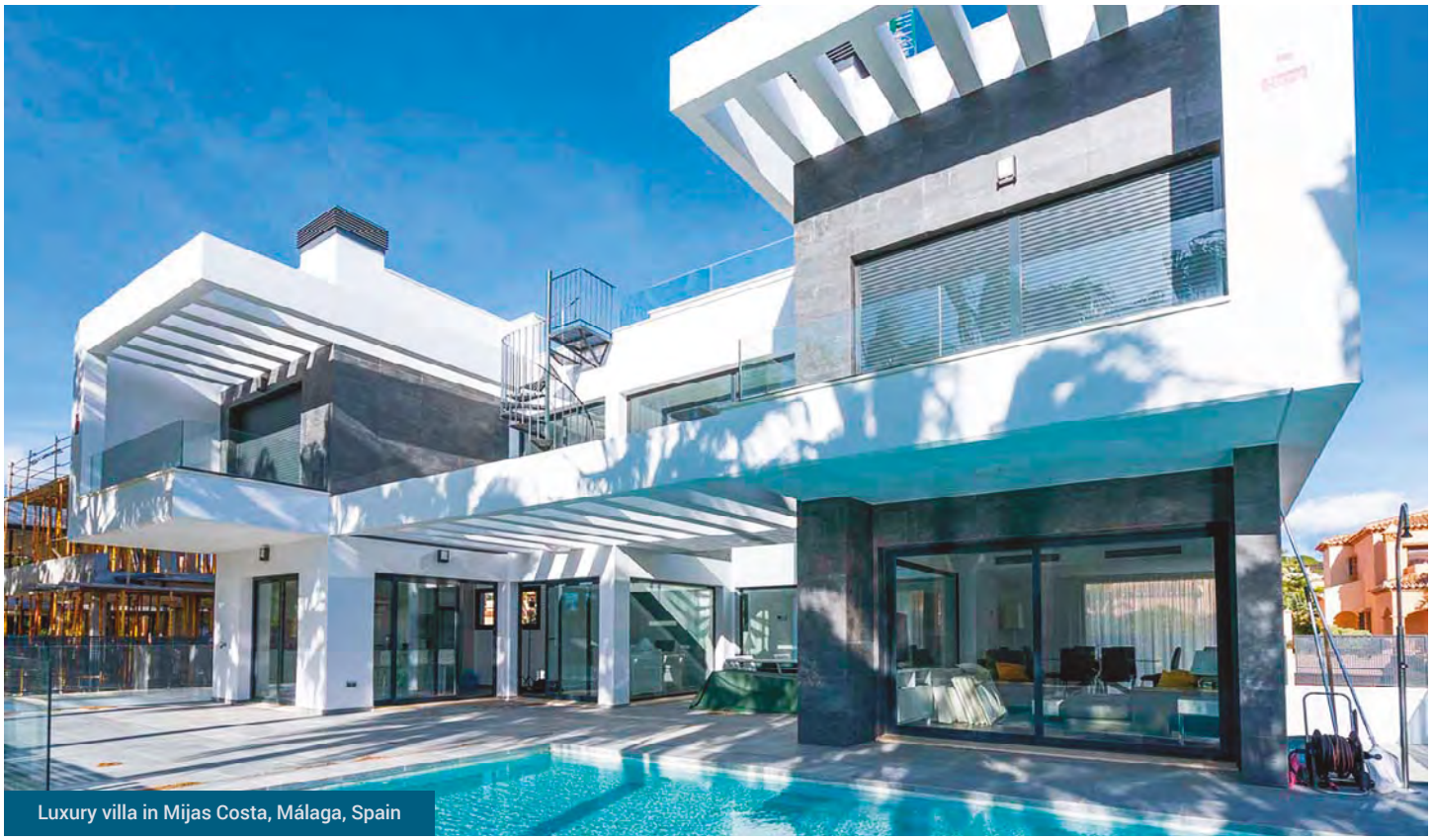
Building in Seville, Spain





Integral Building System

Sample of Projects



Luxury villa in Mijas Costa, Málaga, Spain

Tourist building in Cádiz, Spain

Homes & Buildings







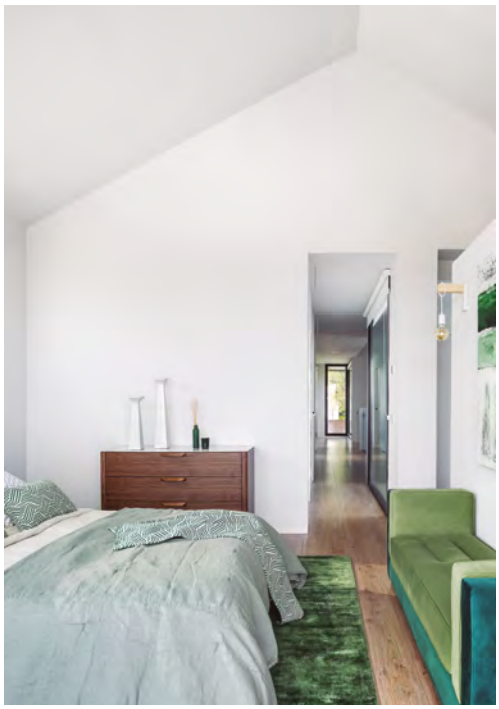





Integral Building System

Technical Specifications

Home built in Villanueva del Pardillo, Madrid, Spain



Technical Specifications Integral and Enclosure

BSR • Vertical Panels

These panels work vertically and resist the horizontal stresses that are transmitted in their alignment or those produced by horizontal wind thrusts or earthquakes. They can also work in flexion as wide-edged girders, placed vertically. The transversal reinforcement is 1 Ø 2.5 every 75 mm.

Ref.	Weight EPS mm	Ø Reinforcement Mesh	Ø Connectors mm	Weight Concrete mm	Weight panel mm	Total weight finished panel Kg/m2	Minimum Airborne Noise Insulation dB(A)	Thermal Transmittance (W/m2K)
BSR 30	30	15 Ø2,5 + 6 Ø5	3,00	41 + 41	112	177	40,5	0,942
BSR 40	40	15 Ø2,5 + 6 Ø5	3,00	41 + 41	122	177	40,6	0,754
BSR 50	50	15 Ø2,5 + 6 Ø5	3,00	41 + 41	132	177	40,6	0,629
BSR 60	60	15 Ø2,5 + 6 Ø5	3,00	41 + 41	142	177	40,6	0,539
BSR 70	70	15 Ø2,5 + 6 Ø5	3,00	41 + 41	152	178	40,6	0,472
BSR 80	80	15 Ø2,5 + 6 Ø5	3,00	41 + 41	162	178	40,6	0,420
BSR 90	90	15 Ø2,5 + 6 Ø5	3,00	41 + 41	172	178	40,6	0,378
BSR 100	100	15 Ø2,5 + 6 Ø5	3,00	41 + 41	182	178	40,7	0,343
BSR 110	110	15 Ø2,5 + 6 Ø5	3,00	41 + 41	192	178	40,7	0,315
BSR 125	125	15 Ø2,5 + 6 Ø5	3,00	41 + 41	207	178	40,7	0,280
BSR 140	140	15 Ø2,5 + 6 Ø5	3,00	41 + 41	222	179	40,7	0,252
BSR 165	165	15 Ø2,5 + 6 Ø5	3,00	41 + 41	247	179	40,7	0,216
BSR 200	200	15 Ø2,5 + 6 Ø5	3,00	41 + 41	282	180	40,8	0,180
BSR 250	250	15 Ø2,5 + 6 Ø5	3,00	41 + 41	332	181	40,9	0,145
BSR 330	330	15 Ø2,5 + 6 Ø5	3,00	41 + 41	412	182	41,0	0,111

BSF • Horizontal Panels

Panels intended to build the wrought iron plates, which can be horizontal, curved, or inclined. They are elements designed to support the vertical loads that originate in the deck of each floor or in the roof. They also fulfill the function of transmitting and distributing the horizontal loads to the vertical load-bearing elements. The transversal reinforcement is 1 Ø 2.5 every 75 mm.

Ref.	Weight EPS mm	Ø Reinforcement Mesh	Ø Connectors mm	Weight Concrete mm	Weight panel mm	Total weight panel terminado Kg/m²	Minimum Airborne Noise Insulation dB(A)	Thermal Transmittance (W/m2K)
BSF 30	30	15 Ø2,5 + 6 Ø5	3,00	61 + 41	132	231	44,8	0,980
BSF 40	40	15 Ø2,5 + 6 Ø5	3,00	61 + 41	142	231	44,8	0,778
BSF 50	50	15 Ø2,5 + 6 Ø5	3,00	61 + 41	152	231	44,8	0,646
BSF 60	60	15 Ø2,5 + 6 Ø5	3,00	61 + 41	162	232	44,8	0,551
BSF 70	70	15 Ø2,5 + 6 Ø5	3,00	61 + 41	172	232	44,8	0,481
BSF 80	80	15 Ø2,5 + 6 Ø5	3,00	61 + 41	182	232	44,8	0,427
BSF 90	90	15 Ø2,5 + 6 Ø5	3,00	61 + 41	192	232	44,9	0,384
BSF 100	100	15 Ø2,5 + 6 Ø5	3,00	61 + 41	202	232	44,9	0,348
BSF 110	110	15 Ø2,5 + 6 Ø5	3,00	61 + 41	212	233	44,9	0,319
BSF 125	125	15 Ø2,5 + 6 Ø5	3,00	61 + 41	227	233	44,9	0,283
BSF 140	140	15 Ø2,5 + 6 Ø5	3,00	61 + 41	242	233	44,9	0,255
BSF 165	165	15 Ø2,5 + 6 Ø5	3,00	61 + 41	267	233	44,9	0,218
BSF 200	200	15 Ø2,5 + 6 Ø5	3,00	61 + 41	302	234	45,0	0,181
BSF 250	250	15 Ø2,5 + 6 Ø5	3,00	61 + 41	352	235	45,0	0,146
BSF 330	330	15 Ø2,5 + 6 Ø5	3,00	71 + 41	442	259	46,6	0,112

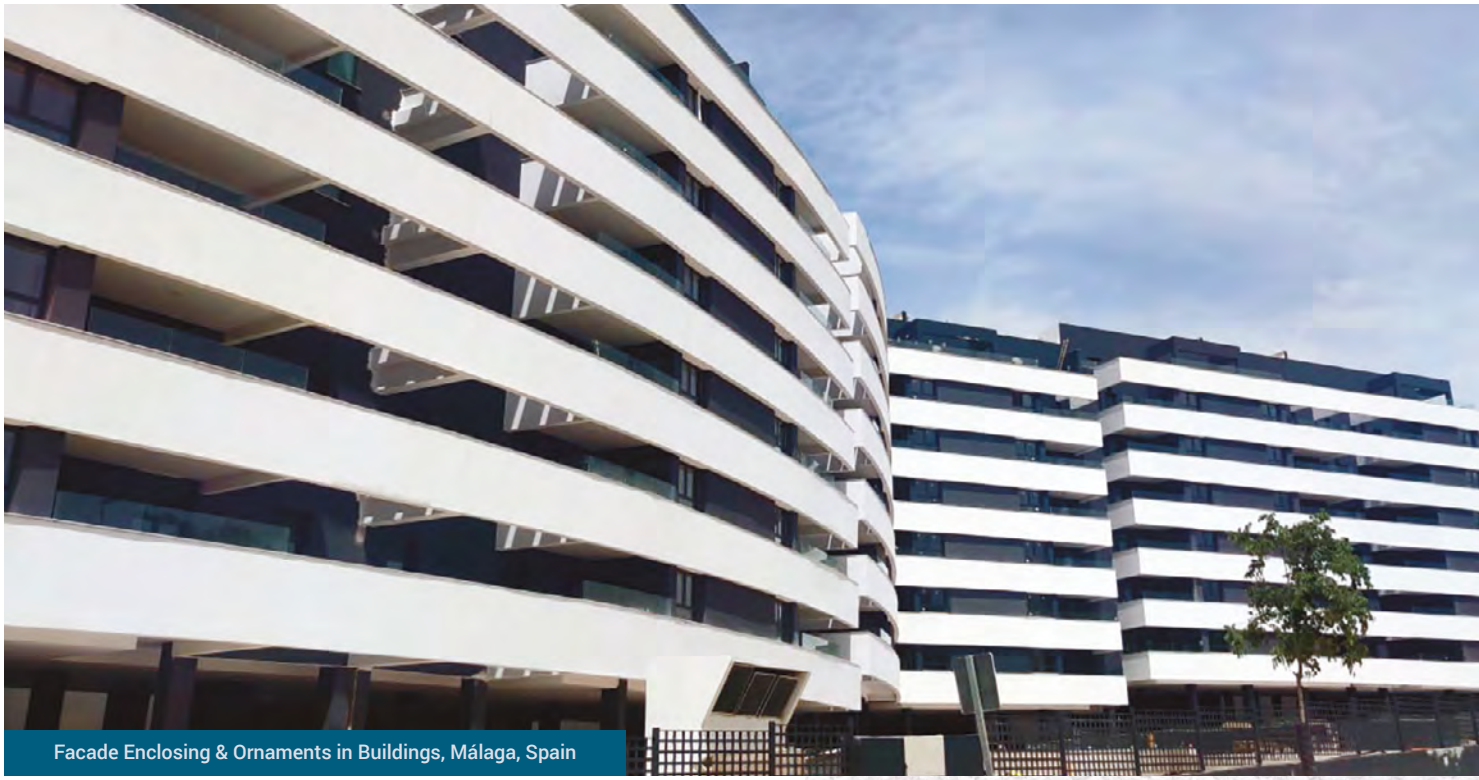
Reinforcement Elements

Ref.	Description	Ø Wire mm	Dimensions mm	Units
MP	Flat reinforcing mesh	2.50	260x1.151	unit
MPE	Flat reinforcing mesh	2.50	Ancho: 1151	m²
MPR	Flat reinforcing mesh	2.5 / 5.0	520x1.151	unit
MA	Angular reinforcing mesh	2.50	227x227	unit
MA 1	Angular reinforcing mesh	2.50	162x292	unit
MA 2	Angular reinforcing mesh	2.50	162x422	unit

BSR panels and reinforcing meshes are supplied to measure Depending on technical project.

Building Enclosings

Facades of Houses and Buildings



Facade Enclosing & Ornaments in Buildings, Málaga, Spain

Structural building enclosings and decorative dwellings

The Baupanel® System makes possible the creation of structural enclosings of homes and buildings without a thermal bridge on the edges of the slab and pillars.

It is used in new construction and structural rehabilitation of existing facades.

In a single batch, insulation and enclosure are installed, reducing execution times and labor. The result is a lightweight reinforced concrete wall that allows anchoring all types of coating systems without generating thermal bridges.

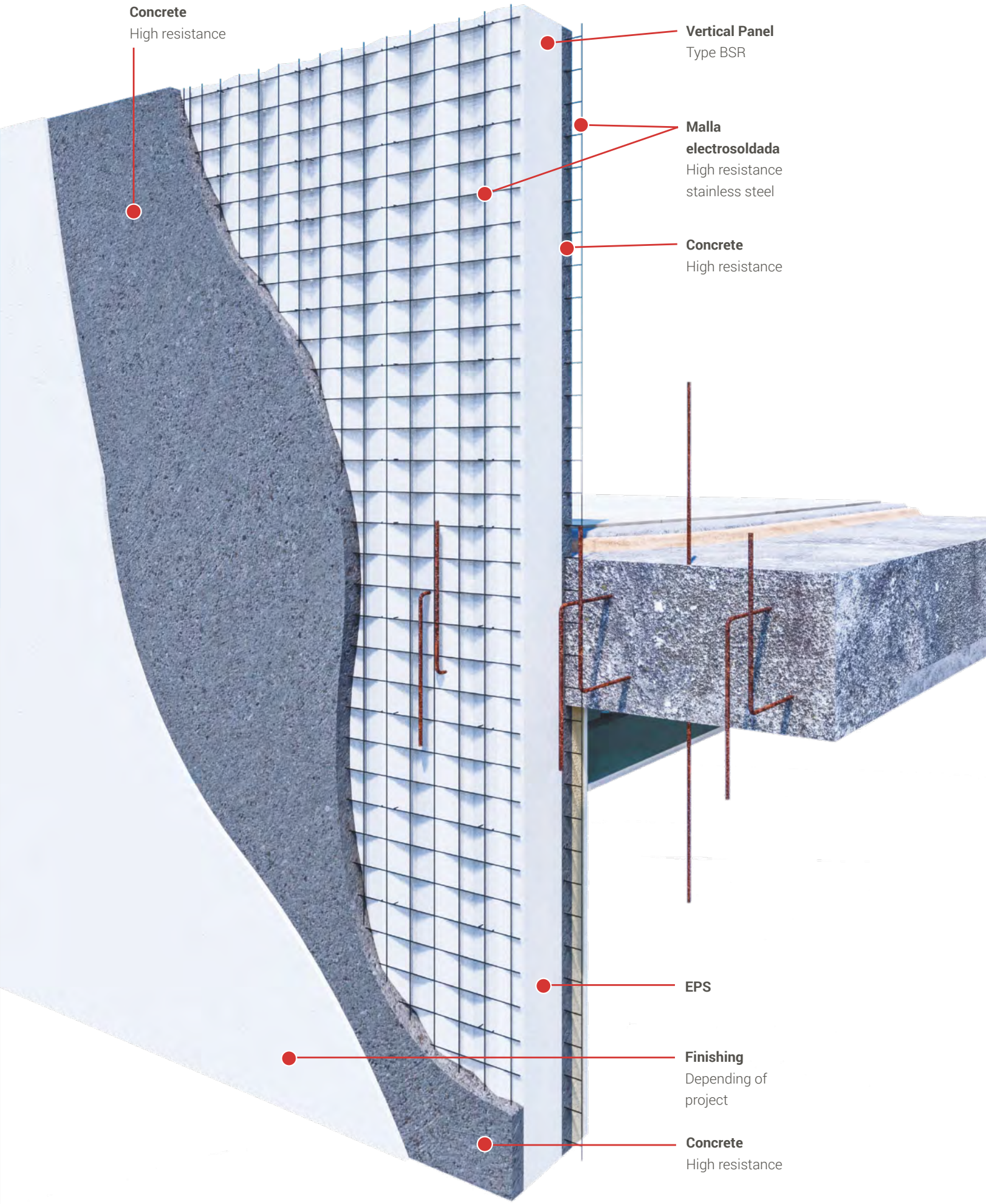
It allows to make curved, inclined enclosures and special designs for any type of architecture.

Breastplates, Beams & Chambers

The Baupanel® System also allows the creation of parapets, railings, beams and freestanding chambers for basements, anchoring them in the edges of the slab and pillars.

- ✓ Thermal structural enclosing
- ✓ Improve energy rating
- ✓ Lightness and easy installation structural strength
- ✓ Greater useful surface
- ✓ Best energy rating
- ✓ Elimination of thermal bridges
- ✓ Thermo-acoustic insulation
- ✓ Design flexibility
- ✓ Superior structural strength
- ✓ Fire resistance

Enclosures for new buildings & rehabilitations


Concrete
High resistance
Vertical Panel
Type BSR
Malla
electrosoldada
High resistance
stainless steel
Concrete
High resistance
EPS
Finishing
Depending of
project
Concrete
High resistance

Building Enclosings

Sample of Projects

Hotel Barceló Playa, Cádiz, Spain

Building enclosing and ornaments in buildings, Málaga, Spain

Building Enclosings

Sample of Projects

Industrial building enclosing, Cádiz, Spain

Industrial & Decorative Elements

Petos and Pergolas in Residential Buildings, Malaga, Spain

Thermal Envelope BauSATEi®

Thermal envelope

baUSATEi®

Impact Resistant Thermal Insulation Exterior or Interior

BauSATEi® is designed to create the thermal envelope of non-insulated buildings and to thermally rehabilitate facades of existing buildings that do not comply with current energy efficiency regulations.

BauSATEi® is made up of a folded expanded polystyrene panel, with a steel mesh attached to it by means of Connectors. It is completed on site by applying a layer of mortar with a compressive strength greater than 15 MPa and a Weight of 20 mm, which gives it its characteristic strength.

Highly resistant to impacts (+ 300 Joules), BauSATEi® helps maintain comfortable temperatures inside buildings throughout the year. It leads to energy savings that can reach 50 kW-h/m2 year, depending on the Weight of the selected expanded polystyrene core and allows access to Class A of the standardized scale of energy efficiency for buildings.

The Baupanel® System Thermal Envelope

High resistance to impacts

100 times more resistant (300 joules) than traditional SATE systems (3 joules).

High resistance to bending

25 times more resistant to bending than traditional SATE systems.

Envelope tightness

Improves the necessary tightness, according to the CTE DB-HE regulations.

More secure placement

It can be fixed with steel bars, given the greater Weight of the resistant layer.

Reduce execution times

BauSATEi® panels are supplied in plates of up to 4.4 m2 that simultaneously incorporate the insulating element and the resistant reinforcement, providing greater speed in placement.

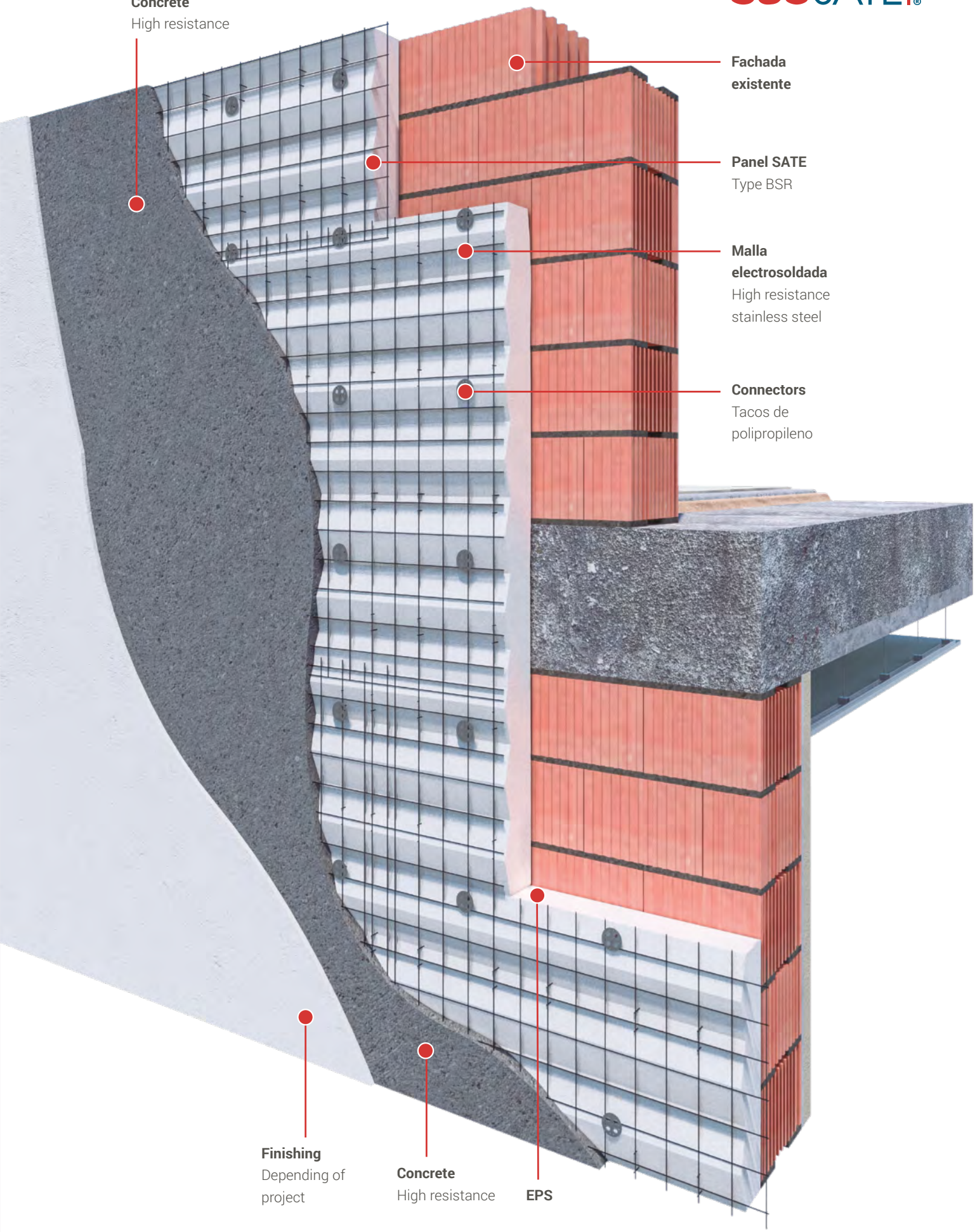
Simplifies commissioning

BauSATEi® consists of only two operations: fixing the plate and subsequent application of the resistant layer, while the traditional SATEs take at least six operations.

Does not spread fire

The BauSATEi® expanded polystyrene insulating plate is Class E, hardly flammable, so it does not spread the flame in case of fire.

Designed for the rehabilitation of the thermal envelope of buildings.


Concrete
High resistance
Fachada existente
Panel SATE
Type BSR
Malla electrosoldada
High resistance stainless steel
Connectors
Tacos de polipropileno
Finishing
Depending of project
Concrete
High resistance
EPS

Thermal Envelope BauSATEi®

Thermal envelope

Advantages and Applications

- Huge savings on heating and cooling costs conditioned by the reduction of the U value of Thermal Transmittance of the building.
- Mechanically protects the building envelope.
- Improves the energy efficiency of the building allowing it to achieve sustainability criteria.
- Eliminates thermal bridges, avoiding the risk of interstitial condensation and heat loss.
- Reduces the thermal solicitation of the structure.
- Transfers the potential dew point away from the building structure.
- Excludes the need to remove the original coating.
- Optimizes the use of thermal inertia, limiting fluctuations in the interior temperature of the building.
- Contributes to the acoustic insulation of the facade.
- It has low maintenance cost.
- Contributes to the elimination of internal health problems, such as humidity and condensation.
- It does not reduce the usable surface (in rehabilitation of the exterior façade).
- Renew the appearance of the facade and increase the value of the property.
- Corrects cracks and fissures in the support, avoiding possible leaks and improving impermeability.
- Increases the useful life of the building.
- It can be installed in houses already inhabited.
- It is respectful with the environment as it does not disperse harmful polluting substances, as it can be recycled and as it reduces losses by avoiding a greater emission of CO2 into the atmosphere.

100 times more resistant than traditional thermal solutions

BauSATEi® is the result of research by the Baupanel® System R+D+i department to improve everything that exists to date in terms of external thermal insulation systems, commonly known in Spain as SATE systems.

Traditional SATE solutions have very low impact resistance (3 joules), making them very vulnerable to natural wear and tear and accidental or intentional damage.

BauSATEi® is 100 times more resistant (300 joules) since it has been developed from an expanded polystyrene plate reinforced with a galvanized high-resistance steel mesh; The zig zag profile of the plate allows it to house a robust layer of High Resistance mortar.

¿How do you install the panels?

BauSATEi® is anchored to the façade either by means of polypropylene plugs with nylon nails or with 6 mm diameter corrugated steel bars.

The number of fixings required is given according to a mechanical calculation applying the criteria of the CTE-DB-SE-AE, particularly section 3.3 where the wind forces are collected according to the geographical location, degree of roughness of the environment, height above sea level , and the shape and orientation of the façade. Usually 5 fixings per m2 are required.

Once the panels have been placed and anchored to the façade, the High-resistance mortar layer is applied, which will be given with 15 mm masters placed on the steel mesh. Taking into account the depth of the fold (11 mm) and the diameter of the elements of the steel mesh (2.5 mm), this layer acquires the Weight of 20 mm. It is applied with a spray machine and finished with a mastered and floated finish.

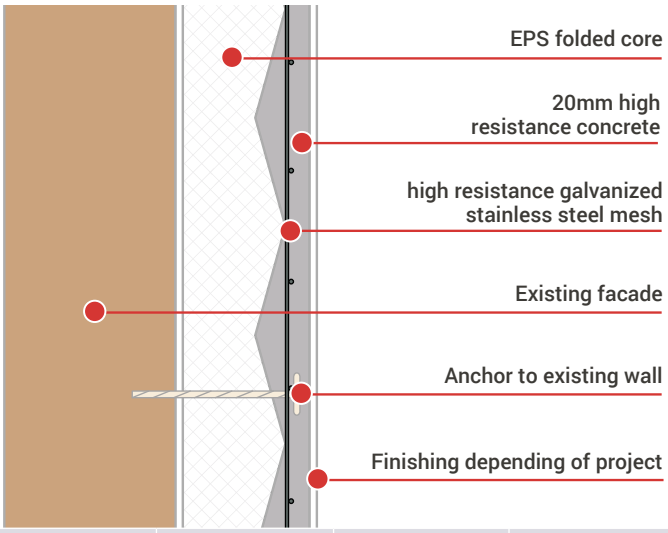
The finished surface may be completed as indicated in the project by means of paint, acrylic mortar, cladding or similar.

Technical Specifications

BPS Panels · BauSATEi®

Panels designed for cladding as a thermal insulation system both on the outside and inside, for use in buildings with enclosures executed with the traditional system. The transversal reinforcement is 1 Ø 2.5 every 75 mm.

BauSATEi® panels are supplied in 2m long plates x 1.10m wide.



Ref.	Weight EPS mm	Ø Reinforcement Mesh	Ø Connectors mm	Concrete Weight mm	Weight panel mm	Total weight panel terminado Kg/m2	Aislamiento mínimo a Ruido Aéreo dB(A)	Thermal Transmittance (W/m2K)
BPS 30	30	15 Ø2,5	3,00	23	53	50,0	30,2	1,009
BPS 40	40	15 Ø2,5	3,00	23	63	50,2	30,2	0,797
BPS 50	50	15 Ø2,5	3,00	23	73	50,4	30,3	0,658
BPS 60	60	15 Ø2,5	3,00	23	83	50,6	30,3	0,561
BPS 70	70	15 Ø2,5	3,00	23	93	50,7	30,3	0,488
BPS 80	80	15 Ø2,5	3,00	23	103	50,9	30,3	0,432
BPS 90	90	15 Ø2,5	3,00	23	113	51,1	30,4	0,388
BPS 100	100	15 Ø2,5	3,00	23	123	51,3	30,4	0,352
BPS 110	110	15 Ø2,5	3,00	23	133	51,4	30,4	0,322
BPS 125	125	15 Ø2,5	3,00	23	148	51,6	30,4	0,286
BPS 140	140	15 Ø2,5	3,00	23	163	51,9	30,5	0,257
BPS 165	165	15 Ø2,5	3,00	23	188	52,3	30,5	0,219
BPS 200	200	15 Ø2,5	3,00	23	223	53,0	30,6	0,182

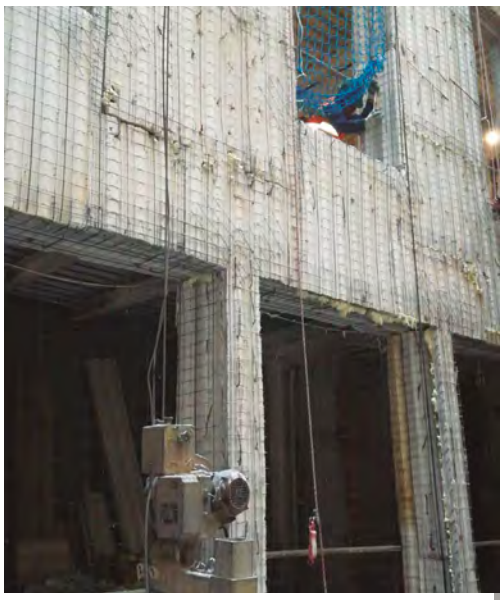
Thermal Envelope BauSATEi®

Sample of Projects

Exterior thermal envelope in house, Cádi, Spain

Homes & Rehabilitations

Interior rehabilitation in building, Madrid, Spain



The Company

Baupanel® System

Baupanel® System is a company born in Spain in 2003, created by a group of professionals with extensive experience in the field of construction and industrial process technology.

Our Goals

Develop a construction system that is based on traditional materials such as steel, expanded polystyrene and concrete, combined in a single product to obtain enormous structural capacity together with excellent thermo-acoustic behavior and at the same time allowing a significant reduction in costs. and execution time.

The Baupanel® System has already become one of the best solutions for full compliance with the Technical Building Code (CTE).

Baupanel® System gathers more than 40 years of experience in pre-industrialized systems that are consolidated in a refined material, disseminated as a valuable alternative in the construction sector and that is used by the main construction companies in the country throughout the national territory. .

Baupanel® System is also present internationally with a progressive expansion in various countries in Europe, Asia, Africa and America.

I + D + i

Baupanel® System dedicates great efforts in terms of R+D+i developing new fields of application of the system. These permanent research works have allowed Baupanel® to hold numerous utility models and invention patents.

Personalised Engineering

Baupanel® System is made up of a dynamic technical and commercial team made up of architects, engineers and draftsmen; professionals who are in charge of the study, development and adaptation of each project from its conception in the design phase to the supervision of the correct implementation on site.

Technology Transfer

Baupanel® System also designs and installs industrial plants using its own technology to produce the construction system anywhere in the world, through licensing and transfer of know-how. It has the most advanced machinery architecture and the best specialists in welding equipment and industrial automation.

Manufactoring Center

The Baupanel® System Industrial Plant is located in Malaga (Antequera) with 6,800 m2. warehouse and offices and an annual production capacity of up to 1,600,000 m2 of panel (equivalent to more than 6,000 homes with 75 m2 of constructed area).

Building Certifications

European Technical Assessment Certification (ETE) 16/0432 issued in 2020 for the construction product and manufacturing plants in Europe and revised in 2022 to obtain the CE marking.

DIT plus Certification - Technical Suitability Document, without height restrictions in construction, granted in 2003 and revised in 2022.

Certified for construction in Pakistan, NUST CERTIFICATION (NUST Institute of Civil Engineering (NICE), Department of Structural Engineering) in 2021.

AFITI Fire Certificate (150 minutes) for construction in Spain in 2018.

London Underground Product Certification product certificate obtained in the United Kingdom in 2015.

Certificate for construction in Algeria C.N.E.R.I.B obtained in 2015.

Certified for construction in Antigua and Barbuda, Baupanel System Integrity Report, in 2014.

Certificate for construction in the Bahamas, from the Ministry of Urbanism and Development in 2014.

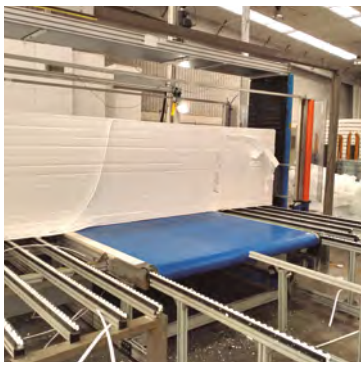
SIRIM QAS Fire Certificate (120 minutes) for construction in Malaysia in 2014.

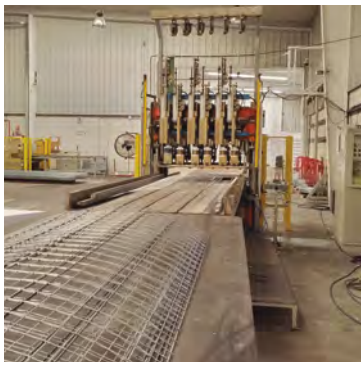
Certified for construction in Abu Dhabi, in 2010.

BUET Certification obtained by Engineering University in Bangladesh in 2012.

Certificate for construction in Nicaragua, obtained by the Ministry of Transport and Infrastructure in 2013.

Baupanel® System Industrial Plant, Antequera, Spain






Baupanel® System Training Center, Antequera, Spain

baupanel®
system

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