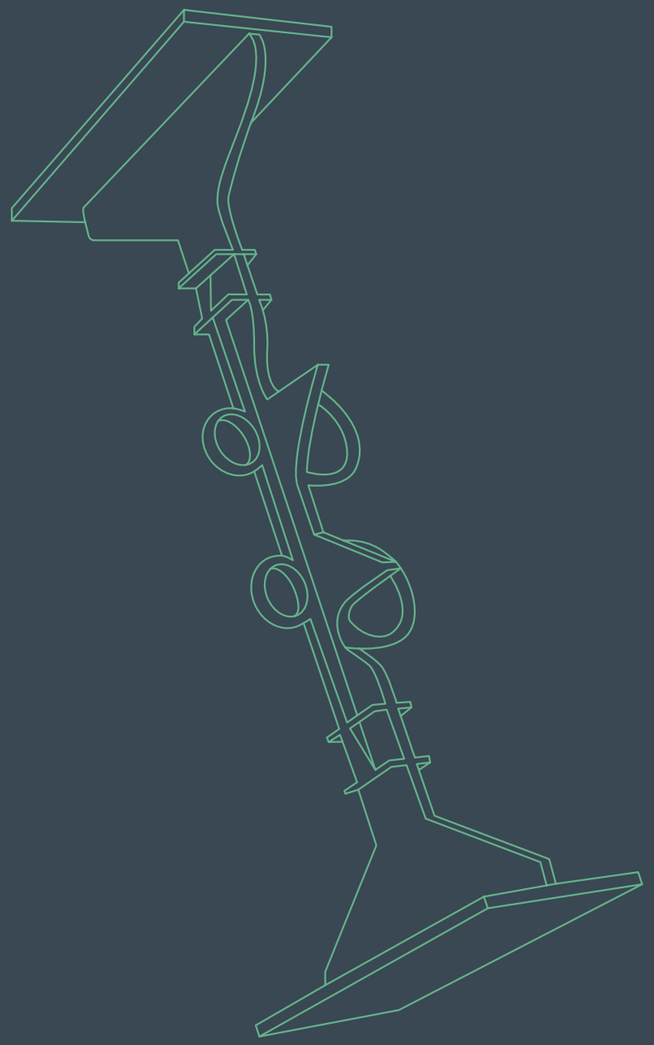
EDsystem

General Catalog 2020

The best system for creating energy-efficient earthquake-resistant buildings.
Il miglior sistema per costruire edifici antisismici ad alta efficienza energetica.

EDsystem



"Simplify, then add lightness"
"Semplificare, vuol dire anche aggiungere leggerezza"

Colin Chapman

EDsystem | Carbon ED SYSTEM®

THE ED SYSTEM BUILDING SYSTEM

We developed and spread the idea (which was not invented by us) to use to formwork to house the reinforced concrete, thus becoming an insulating element. Our building system first started to be developed in 1997 with the creation of the first ED series' *"panel and spacer"*.

Many things have changed since then, the system was fine-tuned and improved, and we have now designed the new **ED System** series, the new landmark in the ICF industry: it includes the walls line, fillings, spacers and a full series of floors for any planner's need.

The new **Ed System** line is undoubtedly the most versatile and straightforward ICF system on the market. Based on the Carbon ED System, ours different from our competitor's, since they use a considerable quantity of components and particular parts; our wall system has only two components, the panel and the plastic spacer. The same principle apply to all our other lines, meaning they are made of only two components.

This results in better handling of the building site, enough with infinite orders, everlasting worries about having forgotten some elements that won't let you finish the work. Just one panel to make isolated bases, isolated ICF walls, angles, insulated lateral window blocks, lintels, jack arches, out-of-line angles, under beam insulation, etc...

No waste, no warehouse leftovers!

There is no more need to order tens of specific components, which lays left in your warehouse until the next job, or even worse, if not present, won't allow you to finish everything, resulting in huge costs and more extended timings.

All this, along with our **thermal floor** and our **partitions** makes it possible to create anti-seismic, highly energy-efficient buildings, and the handling cost of the building can be 60% lower compared to a standard one, while the timings at the building site can be up to 40% less.

The **ED System** line comes from years of research and expertise of an Italian family who, ever since mid 20th century, dedicate all their effort to build civic and industrial buildings to contribute to the post-war reconstruction.

Let's take a step back, precisely back to 1997. During that time, two Japanese cities were often coming up in the news: Kyoto, where the protocol was signed in 1997, and Kobe, the set of a tremendous earthquake in 1995.
So the company started thinking about how to solve these problems and tried to find a building system that could satisfy the aspects of environmental friendliness and anti-seismic resistance.

But this seemed too simple; we had to go beyond that.

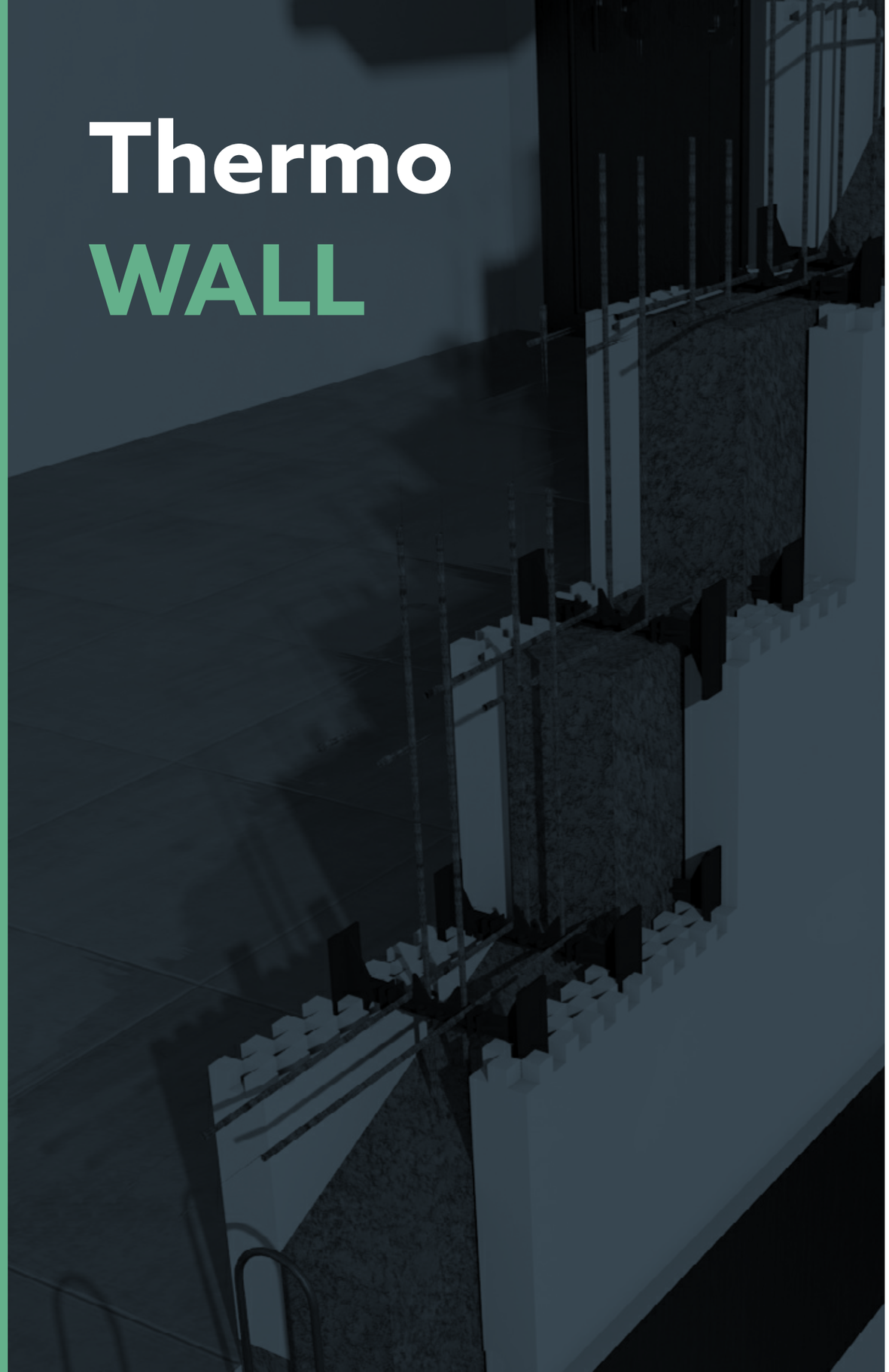
We had to do more!

To make our system genuinely complete internationally, we considered these 5 points:
1. The lack of specialised man-work forced us to think of something easy to lay, even for people with little education or who speak a different language.
2. The realisation times should be quicker than other building procedures to ensure less financial burdens.
3. The elements should not be prefabricated, to avoid the inconveniences that come out of not laying buildings.
4. The realisation costs should be comparable to other systems used, otherwise no one would try it out.
5. Living in a building made using our systems should be more comfortable and economical than any other building system.

The challenge was up!

ED SYSTEM PRODUCTS

The best system for build energy-efficient earthquake-resistant buildings.
Il miglior sistema per costruire edifici antisismici ad alta efficienza energetica.



Thermo WALL

With **ED System Thermo Wall**, you can build a wall that's durable and perfectly insulated, and in just one passage. It is a foam polystyrene (EPS) formwork building system ready to be dry assembled and cast on-site.

Designed to build reinforced-concrete walls, it embeds in one solution the mechanic resistance of concrete with the insulating power of polystyrene.

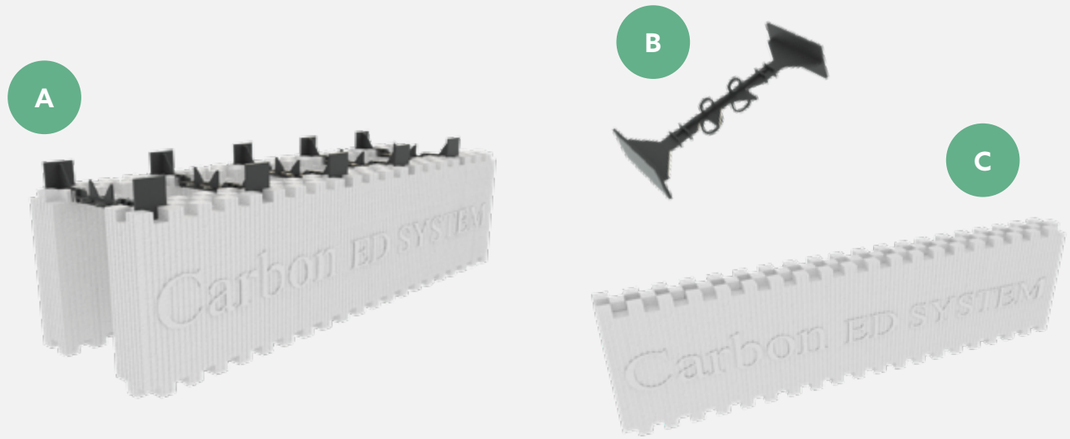
Thermo Wall gives you in just one phase:
- An anti-seismic bearing structure
- Fillings
- Soundproofing
- Thermal insulation

The bearing part is made of slightly reinforced concrete walls, with a thickness of 15, 20, 25 or 30 cm, according to the structural and static needs. The insulation is guaranteed by the two completely integral EPS walls, which have a minimum thickness of 5 cm, extending it up to 22,5 cm.
Our worst structure guarantees acoustic insulation of 53 dB (we get up to 63 dB of insulation), therefore it is perfectly suitable as a spacer for building units - the norm requires a minimum of 50 dB). In terms of thermal insulation, our structural combinations start from a transmittance of 0.31 w/m2k with a 25 cm thick wall, and they get to 0.10 w/m2k with a 45 cm wall!
These are impossible values for a traditional structure!

A substantial building should also be economical to handle and should offer high-quality comfort.

At a time when public opinion is raising its sensitiveness towards environmental issues, as well as building safety, there is a higher need of using a building system which has the highest quality standard. The entire system aims at reducing to the minimum the chances of mistakes during the laying, and the systems use materials and entirely codified techniques. It is, therefore, almost impossible to make any mistake.

Our building system is especially suitable if you want to build something that follows the anti-seismic, energy-saving and soundproofing regulations while containing the thickness of the walls, and last but least while keeping the building site costs low.



A. *The assembled system* - **B.** *The spacer* - **C.** *The panel*

The system has only 2 components, the EPS panels and the plastic spacers (both available in various widths). These are separate components ready to be assembled at the building site, and they are 100% recyclable.

The many geometries of the spacer allow building a vast range of wall typologies. You can, in fact, use 15 to 30 cm of concrete width, and insulation width that varies from 10 cm to 30 cm.

Furthermore, by combining panels of different materials (white or graphite), you can make hundreds of combinations to satisfy any planner or client request.

We see it as the evolution of the woodwork yellow wood panel: here, the yellow panel is substituted by the EPS panel, while the metal spacers combining the iron fans are our plastic spacers.

The EPS panels have a double function:

- To keep the concrete casting at the liquid state and protect it by curing it and making it work in a protected environment and raising its structural qualities.
- To insulate the wall. Thanks to the total 10 cm of EPS in the basic structure (which can get up to 30 cm), they ensure unmatched thermal insulation. While the external panels protect the house from cold temperatures, the internal ones avoid heat dispersion.

The plastic spacers have three functions:

- Guarantee the structural solidity of the formwork during laying. They avoid the work block to open.
- They facilitate the horizontal and vertical iron placing. The spacers, thanks to their casings (our international patent) allow the iron to stay still during the concrete casting, keeping it in the correct position. They do not require any ligation.
- Facilitate the laying of internal plating with plasterboards. The spacers are placed with a distance between centres of 30 cm vertically and 20 cm horizontally (which can be thickened up to pitch 10), allowing to follow the plasterboards distance between renters, and rotating them without ever missing the anchorage. Tight the plates the supports enclosed in the walling, they do not require any expensive additional structure.

technical datasheet

layering manual

safety datasheet

Thermo WALL gives you in just one phase:

- An anti-seismic bearing structure
- Fillings
- Soundproofing
- Thermal insulation

The bearing part is made of slightly reinforced concrete walls, with a thickness of 15, 20, 25 or 30 cm, according to the structural and static needs. The insulation is guaranteed by the two completely integral EPS walls, which have a minimum thickness of 5 cm, extending it up to 22,5 cm.
Our worst structure guarantees acoustic insulation of 53 dB (we get up to 63 dB of insulation), therefore it is perfectly suitable as a spacer for building units - the norm requires a minimum of 50 dB). In terms of thermal insulation, our structural combinations start from a transmittance of 0.31 w/m2k with a 25 cm thick wall, and they get to 0.10 w/m2k with a 45 cm wall!
These are impossible values for a traditional structure!

Our building system is especially suitable if you want to build something that follows the anti-seismic, energy-saving and soundproofing regulations while containing the thickness of the walls, and last but least while keeping the building site costs low.

+ System benefits

- The only system worldwide that guarantees the horizontal and vertical reinforcement bars bond thanks to the patented spacer
- No thermal bridge, no inserts in the front
- Separate components are 100% recyclable
- No ligature in the reinforcement iron
- Over 100 possible combinations using different walls and insulating widths
- The materials come compacted, resulting in 50% lower transportation costs
- Modular system with a minimum step of 2.5 cm
- No high-skilled workers needed
- 40% lower building site timings

One system, many benefits

Thermal insulation

Anti-seismic

Safer building site

Quick laying

Economical

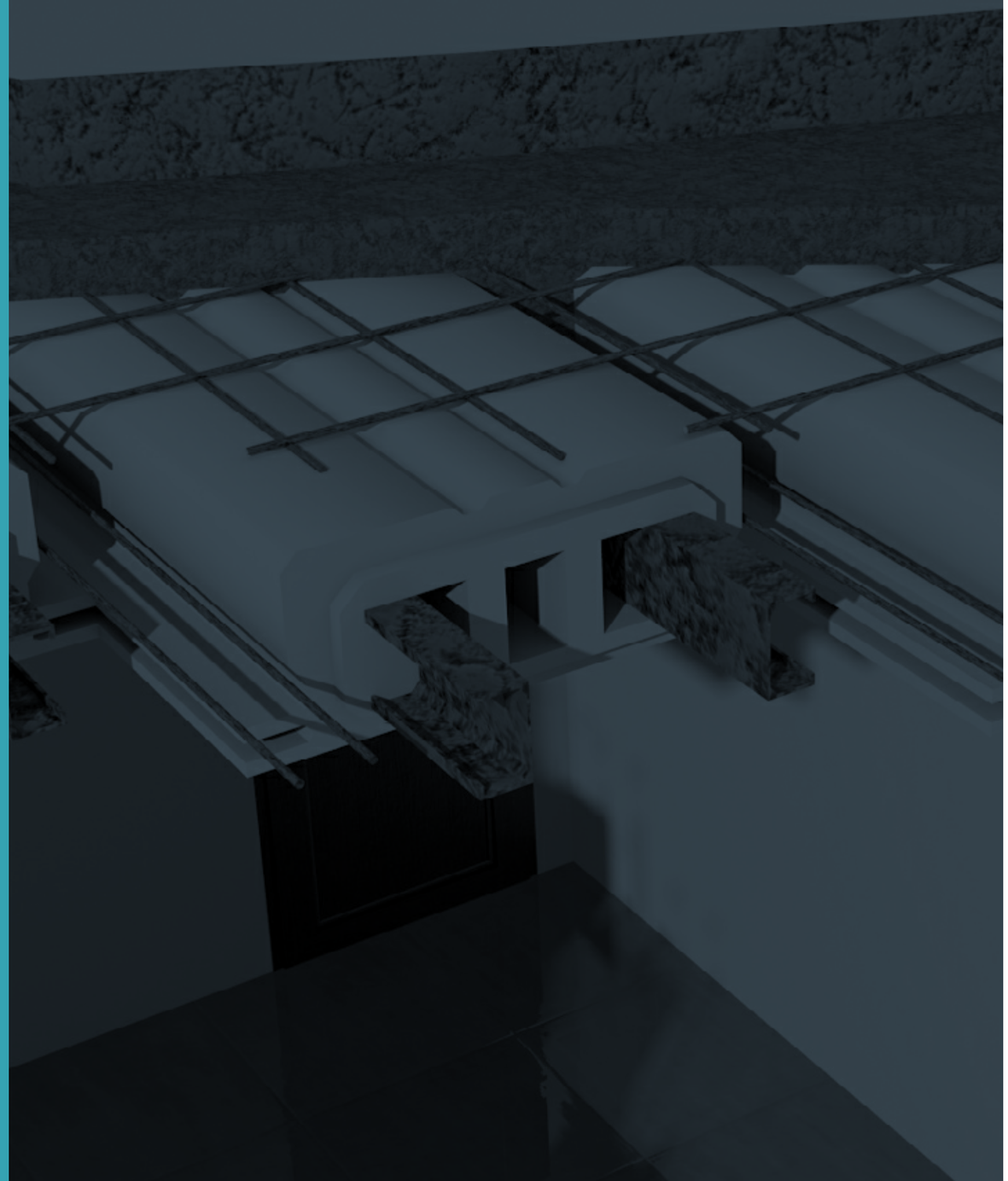
Easy facilities traces

Variable geometry

Foolproof system

Less carpentry needed

Thermo
FLOOR



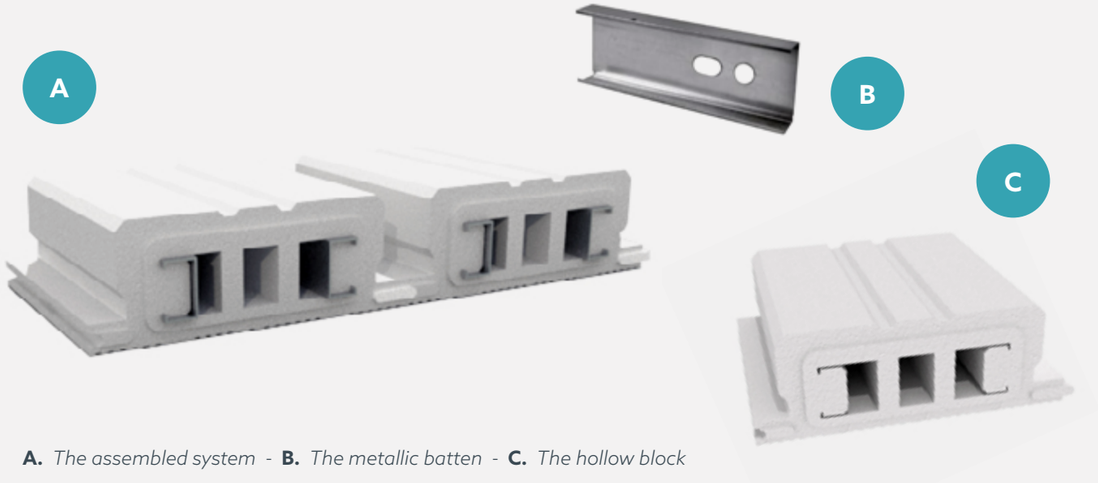
The **Thermo Floor** is one of the most substantial assets in the ED2 system. It's not only easy to handle and extremely versatile, but it also eliminates any thermal bridge. We could have stopped there, but we also wanted to eliminate any trace of metallic profiles in the intrados, allowing to plaster without any need for further operation.

What if all this would come in a kit, leaving the worry of prefixed measures? We made it possible!

The **Thermo Floor** comes in two versions: tailor-made (the floor follows your technical design) or in kit version. The floor will be packed, compacted and ready to be assembled in the building site. By ordering the kit, the floor won't be tailor-made, so you won't have to worry that the measures won't fit at the building site. This ensures maximum usage flexibility, and the possibility to modify the preparation of the floor at any stage. Another great benefit is that you can have a little extra stock for any emergency or unforeseen event at the building site, or even to optimise transport. We all know that sometimes we can't fully load trucks with such materials, we certainly can't come up with the measures of a floor of a building site we haven't yet!

The element weighs only 7kg/m2, which makes it easy to move and manually do the laying, resulting in fewer tools at the building site: this means lower costs and timings. As an example, a panel of 5 m of length and 60 cm of width (therefore having an area of 3 m2) is going to weigh only 21 kg and can be moved by only one worker. It significantly reduces assembly timing and the specific tools (props and carpentry in the joint sections and the crossbar). This is possible thanks to the Carbon ED SYSTEM Floor self-bearing characteristic, its weight of 7kg/m2 and the widening of the battens in the joint sections, the realisation of the crossbar, and possible curved cuts can be prepared directly at the building site and then proceed with the laying.

Thermo Floor follows the ED System principle: you'll only use 2 elements to make it. There's the hollow block, which is going to stay in the structure, becoming an insulating and lightning part, and the metallic batten which ensures self-bearing during the laying, as well as a stable anchorage for the dry finishing systems.



A. *The assembled system* - **B.** *The metallic batten* - **C.** *The hollow block*

Do you want to know why the Thermo Floor is the best system to build energy-saving and anti-seismic buildings?

Planners can calculate the floor just like any traditional Bausta type. It's just going to be much lighter!

Heating Technicians finally have a floor which doesn't have any thermal bridge, ensuring consistent insulation (whether it's a middle or a covering roof).

Real Estate Agents knows that a warmer house is much simpler to sell.

Builders have just one fantastic roof at an affordable price. Plus, they don't have to worry about finely calculate the measures.

The Purchasing Department can order the kit, which is both economical and versatile.

Construction Managers knows works are going to proceed as intended and that the sections, the concrete cover as well as the mechanic strength are those in the project. They are going to have perfectly coplanar floor with no visible metallic profile.

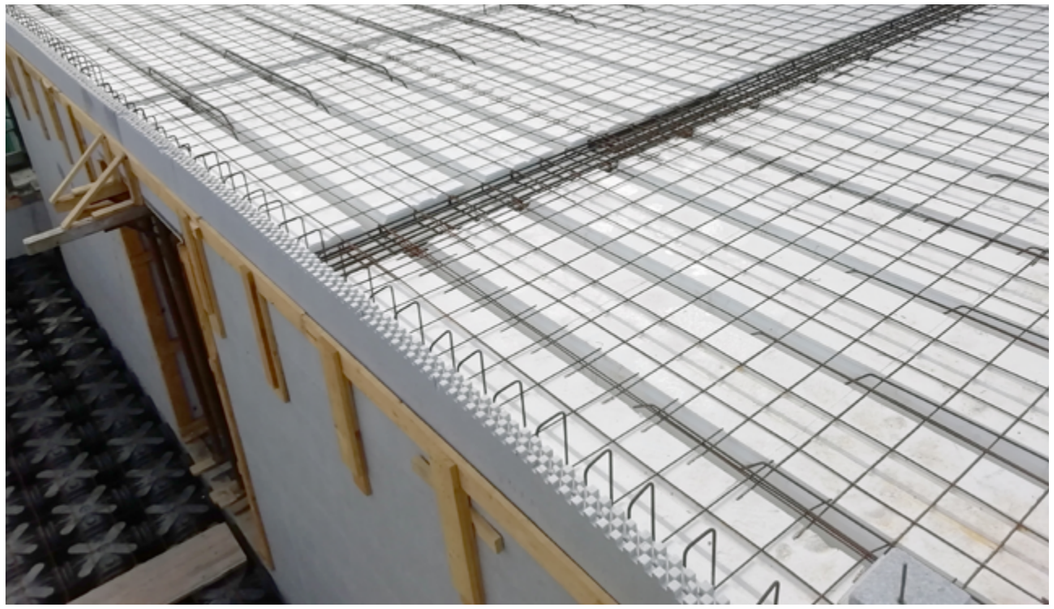
The Security Officers are glad of having a self-bearing floor which goes beyond the declared values, and they are confident about visiting the building site at any time.

Assemblers have a more definite preference for the kit as it is easy and quick to layer.

Electricians can insert the retractable corrugated hoses without having to cut the laminations.

Plasterboards installers need to: screw the plates near the written area using longer screws lightly.

Bricklayers can then go on with the plastering without having to plaster metallic profiles, or putting lime mortar over and over. It's possible to plaster the surface even for just 5 mm.



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Thermo FLOOR

Thermo Floor is a formwork with self-bearing capacity up to 1.5 m, with variable geometry. The height of the batten changes according to the structural needs, and so the panel.

Thermo Floor is a “left in place formwork” with integrated thermal insulation, suitable to build reinforced floors to cast. In addition to the benefits of a casted floor, it’s more energy-saving, more resistant to earthquakes, and quicker to build. You can order the kit version to better manage orders.

+ The system benefits

- No waste or unused stock
- No high-skilled workers needed
- 50% lower building site timings
- No thermal bridge thanks to the insulated under beam flap
- Non-visible tinplates on the floor intrados
- Separate components are 100% recyclable
- Weight reduced from 100 to 150 kg per m2
- Variable beam high up to 7 m, to satisfy any structural need

One system, many benefits

Thermal insulation

Anti-seismic

Fire resistant

Reduced thickness

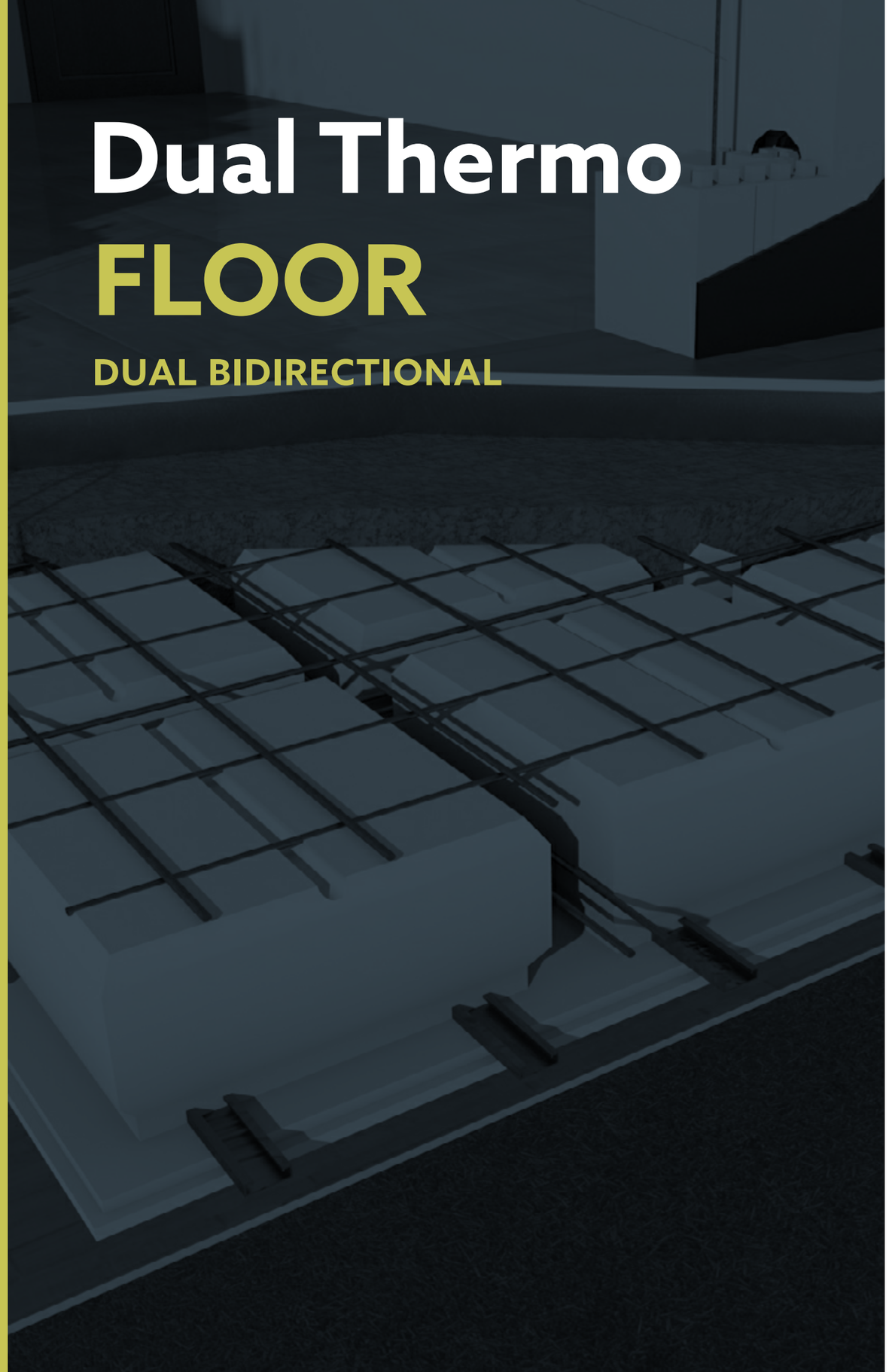
Quick laying

Self-bearing

Adjustable to the needed span

Safer building sites

Economical



Dual Thermo FLOOR

DUAL BIDIRECTIONAL

The unidirectional ED System floor is excellent for those buildings where the light between the supports is not too strong. When you have to face more significant challenges like more consistent lighting, reduced thickness, stairs openings in the middle of a room, the unidirectional floor might show some limits.

The full slab is an excellent solution, but in modern energy-saving, anti-seismic buildings you need to take into account the weight of a floor made exclusively using reinforced concrete, which is undoubtedly going to be massive.

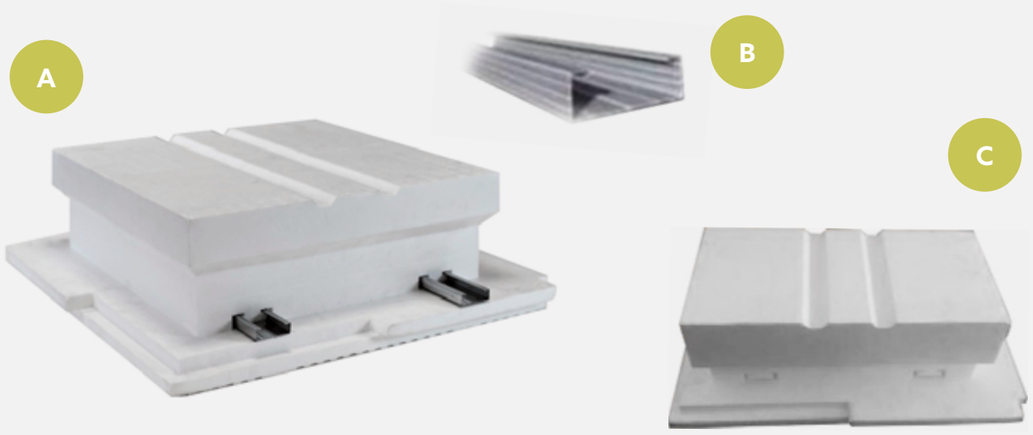
So we came up with a solution that puts together the advantages of a full slab with our lighter and insulated floor!
The reduced thickness comes from the use of crossing beams, and this is the **ED System Dual Floor** most robust feature.

We didn't merely want a system easy to handle, versatile with any measurement; we wanted to get rid of possible thermal bridges. We could have stopped there, but we also wanted to make sure no metallic profiles would be visible in the intrados so that you can plaster the floor without having to worry about anything else.

It's a floor that offers new planning possibilities for professionals, mixing architectural lights, high loads, lightness and excellent insulation of decks.

Its standard module allows creating grids of bearing mesh beams, 60x60 cm.

The floor can be installed on a full boarding, a grid, or through our formwork system, by placing simple sub-measure prismatic boards, so that it's suitable to use even in small building sites. We didn't want a system which would only benefit the big constructors; we wanted to satisfy the most client possible!



A. *The assembled system* - **B.** *The metallic batten* - **C.** *The formwork*

As the unidirectional Thermo Floor, the Dual has only two components, the EPS formwork and the metallic batten.

The Dual Floor, with its bidirectional, crossed reinforced system, realises ample lighting system with contained floor heights, minimal reinforcements and reduced casting timings. Thanks to its material, the DUAL Floor has a high insulation power; it eliminates thermal bridges, and contributes to reducing the energy levels, thus reducing the costs of building management.

Thermo Floor is a revolutionary floor: it allows you to have the same performance of a reinforced plate (full slab) but with little weight, just like the weight of a traditional unidirectional floor. The DUAL floor is a panel which geometry varies according to the height needed, it has integrated thermal insulation, and can be used to reinforce and cast bidirectional floors.

The great advantage of this floor is that you don't need to order it "tailor-made", you'll only need to place the 60x60 cm elements next to each other until you cover the desired area.

This way you can keep some floor stock, in case you need to face some changes during the project. Therefore you won't need to worry about building a floor with incorrect measures.

The lightness of the DUAL Floor compared to traditional materials improves the seismic reaction of the building by reducing the load transmitted by the horizontal layers to the vertical ones. Furthermore, its double reinforcement distributes uniformly any load on the beam or border walls, without giving the load to just a few structures.

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DUAL Thermo Floor

DUAL Thermo Floor is a revolutionary building method, thanks to its “bidirectional” system: it gives you the same performance of a reinforced plate, but with reduced weight, just like the weight of a traditional unidirectional one.

DUAL Thermo Floor is a self-bearing, integrated thermal insulation formwork panel with variable geometry, according to the panel height, and you can use it to make bidirectional follow to reinforce and cast. Its high performance comes from the structural intertwining of zinc-plated metallic profiles and foam polystyrene.

+ System benefits

- No waste or warehouse stock
- Even distribution of loads on all direction
- Reduced section of the structural beams
- No thermal bridges
- Non-visible laminations from the floor intrados
- Easier dry finishings anchorage
- Suitable for floors with a lot of low lights or heavy load
- Variable batten height suitable for any structural need

One system, many benefits

Thermal insulation

Anti-seismic

Fire resistant

Reduced thickness

Quick laying

Self-bearing

Safer building site

Economical

Thermo
PARTITION

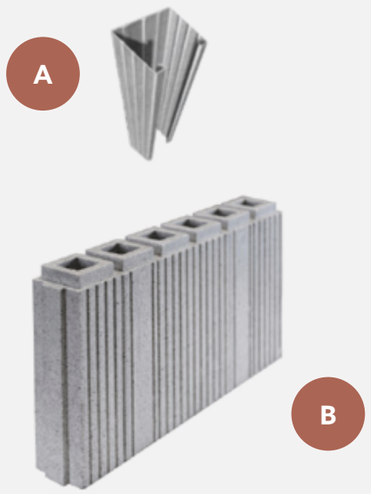
The **Thermo Partitions** are great for internal divisions or external fillings, both in an industrial or private setting. They are entirely made with sintered foam polystyrene (EPS), 60 cm width and 10 cm thick, while the length varies according to request. You only need to joint the base panels until you reach the desired height, then insert within the metallic profiles to ensure they are self-supporting.

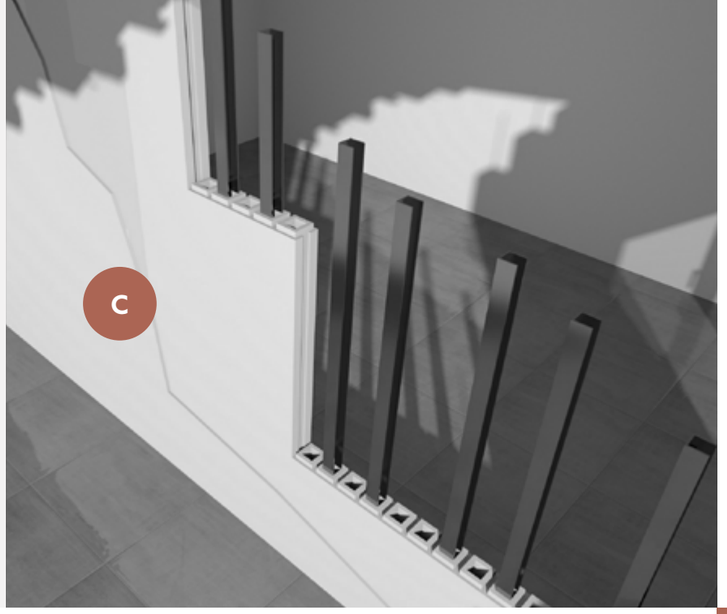
There are 2 metallic profiles within the panels - C-shaped, made of pre-holed, cold-rolled, hot-dip galvanised steel - with a distance between centres of 30 cm, and 5/10 mm of thickness.

The metallic profiles in the panel give to it a high level of rigidity, they ensure the correct anchorage to the structure, also allowing the anchorage of dry finishings (plasterboard, fiberboard, beads, etc.). Thanks to the lightness of each element, the moving and layering are fast and straightforward, they do not require any specialised workforce, nor any specific tool. Furthermore, the perfect pairing of the panels is made possible by a joint groove and tongue system, which does not need any further use for mortar or adhesive.

Thermo Partitions replaces the classic internal partition made with tiles or with autoclaved concrete blocks. Its heat-insulating quality, as well as its mechanic strength, make it also suitable for the perimetrical filling of frame structures, or as internal false-wall on existing structures, thus having the double function of inner cover as well as a structure for dry and wet finishings.

The installation laying is simple: you can make the grooves for the chases by using a hot knife than those you can buy at any hardware shop (alternatively, you can ask our sales managers for one). This way, you'll avoid all the assistance expenses for operations related to the opening and closing of chases.





A. *The metallic lath* - **B.** *The panel* - **C.** *The assembled system*

Making buildings with Thermo Spacer follows the philosophy of the entire ED System program.

Be ready to have exceptional insulation and the most robust anti-seismic resistance. It's a quick and straightforward system to make the internal partitions in buildings in a natural way, at the same time offering the best thermal and static output.

technical datasheet

layering manual

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Thermo SPACER

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+ System benefits

- No waste and no storage in the warehouse
- Extremely safe, no more overturned bulkhead in case of an earthquake
- Building site timing 40% lower
- Very light, no extra load on the roof
- Invisible laths on the spacer surface, so it's possible to plaster it
- Components are separate and 100% recyclable
- 2 elements only system
- Making the chases for facilities is quick and with no rubble

One system, many benefits

Thermal insulation

Quick laying

Easy facilities chasing

Variable geometry

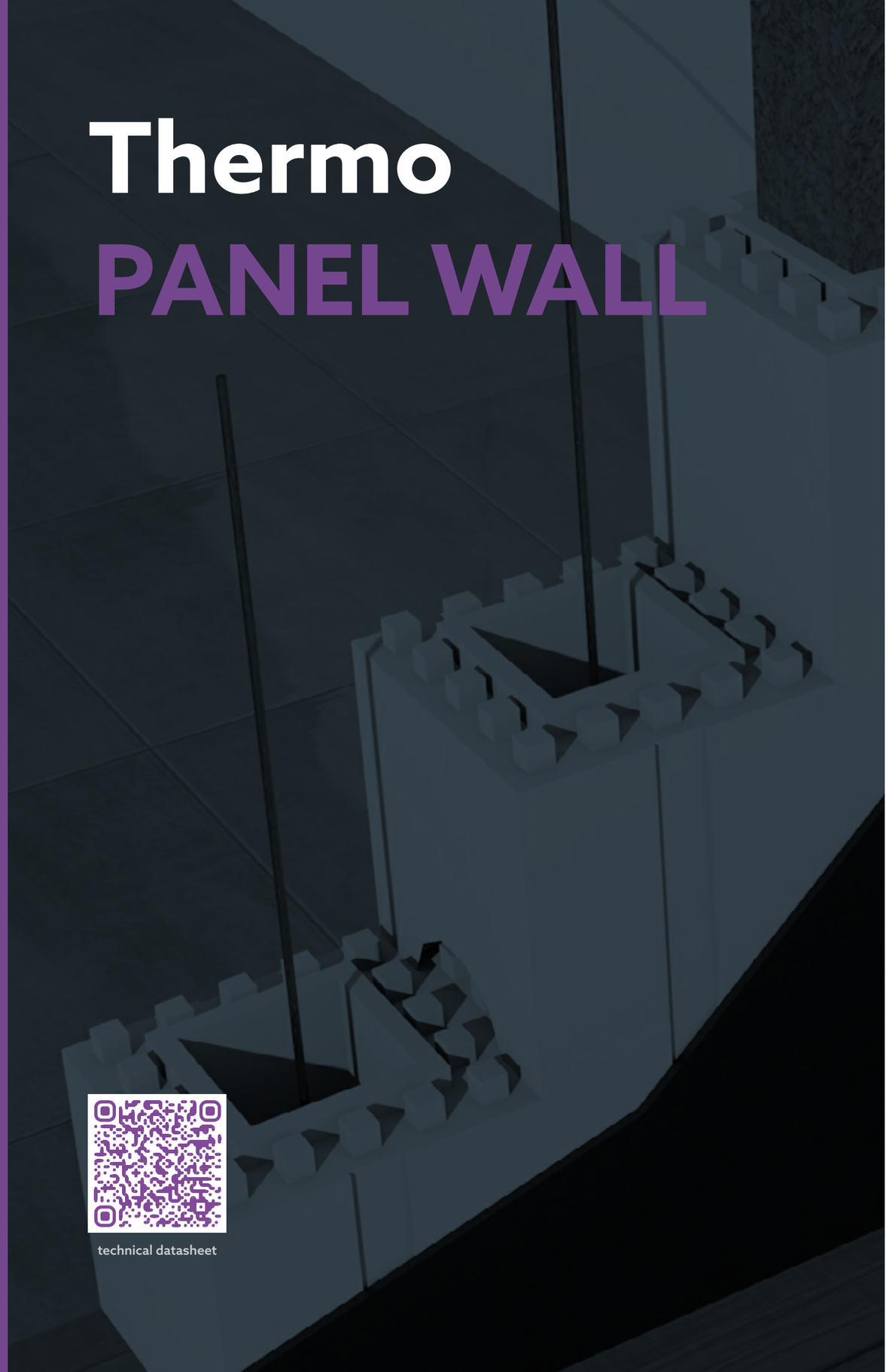
Easy to handle

Soundproof

Safer building site

Economical

Thermo
PANEL WALL



technical datasheet

In 1997 our research centre designed a seven bearings system to ensure consistent behaviour of the structures, and at the same time improves the efficiency of the overall frame. We have put particular attention on the curtain walls.

By observing the damage caused by earthquakes on building made of reinforced concrete, we found that the expulsion of the panel walls and the internal fall of ceilings not adequately anchored to pillars and reinforced concrete beams cause very significant damage and even the loss of human lives.

The filling walls in frame structures, made of reinforced concrete or steel, are vital to separate the spaces both from outdoors and between the different building units. We found, though, that due to recent earthquakes and more considerable attention towards different construction systems, that they were the weakest ring in a mesh.

For a structural point of view, the panel walls do not absorb the solicitations on the building, only those related to its own physical and structural conformation.

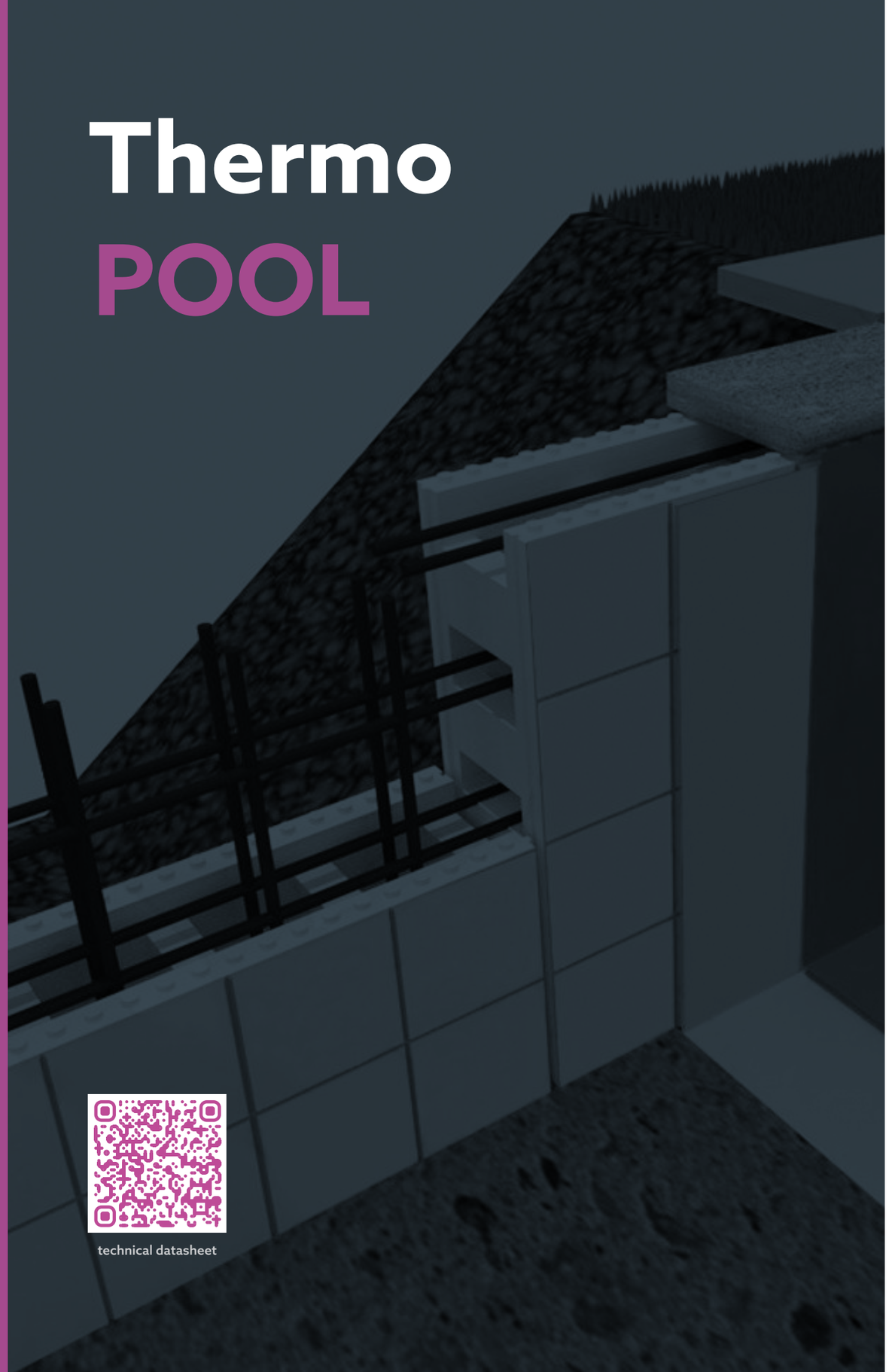
The Carbon ED System Research Centre designed a way to avoid the expulsion of the panel walls. The system we designed to satisfy two objectives: offering maximum safety during an earthquake and raise the resistance to expulsion out of level, while at the same time limiting the post-seismic maintenance costs as much as possible.

+ System benefits

- **No waste and no warehouse storage**
- **No need for high-skilled workers**
- **Building site timing 50% lower**
- **No thermal bridges**
- **Anti-seismic, anti-roll curtaining**
- **Fully integrated with the mesh through grouting**
- **Can be fishing with plaster of various widths**
- **Dry assembling with its tongue and groove panelling**

Thermo Panel
is available in either 20 cm width or 30 cm width, with 10 cm or 15 cm small concrete pillars.

Thermo
POOL



technical datasheet

Thermo Pool is the innovative building system per residential and public pools. It is made with foam polystyrene formworks which can be mutually and easily connected to create a structure ready for the concrete casting.

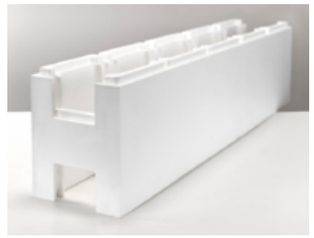
By using **Thermo Pool**, you can have a continuous reinforced concrete structure of any shape and size which satisfies all different structural needs. Thanks to the insulation power of polystyrene, the water in the pool keep a more comfortable temperature.

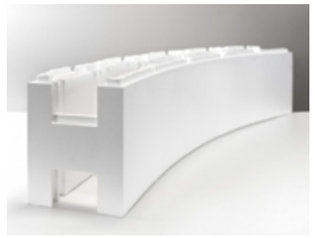
The system has elements for both curved and straight walls (of variable radius) to allow the pool to be of any shape and size.

Just like all the items of the ED System line, Thermo Pool is made keeping in mind energy efficiency (it helps to keep the water warmer in autumn and spring), time-saving, maximum architectural versatility, great lightness and building site safety.

+ System benefits

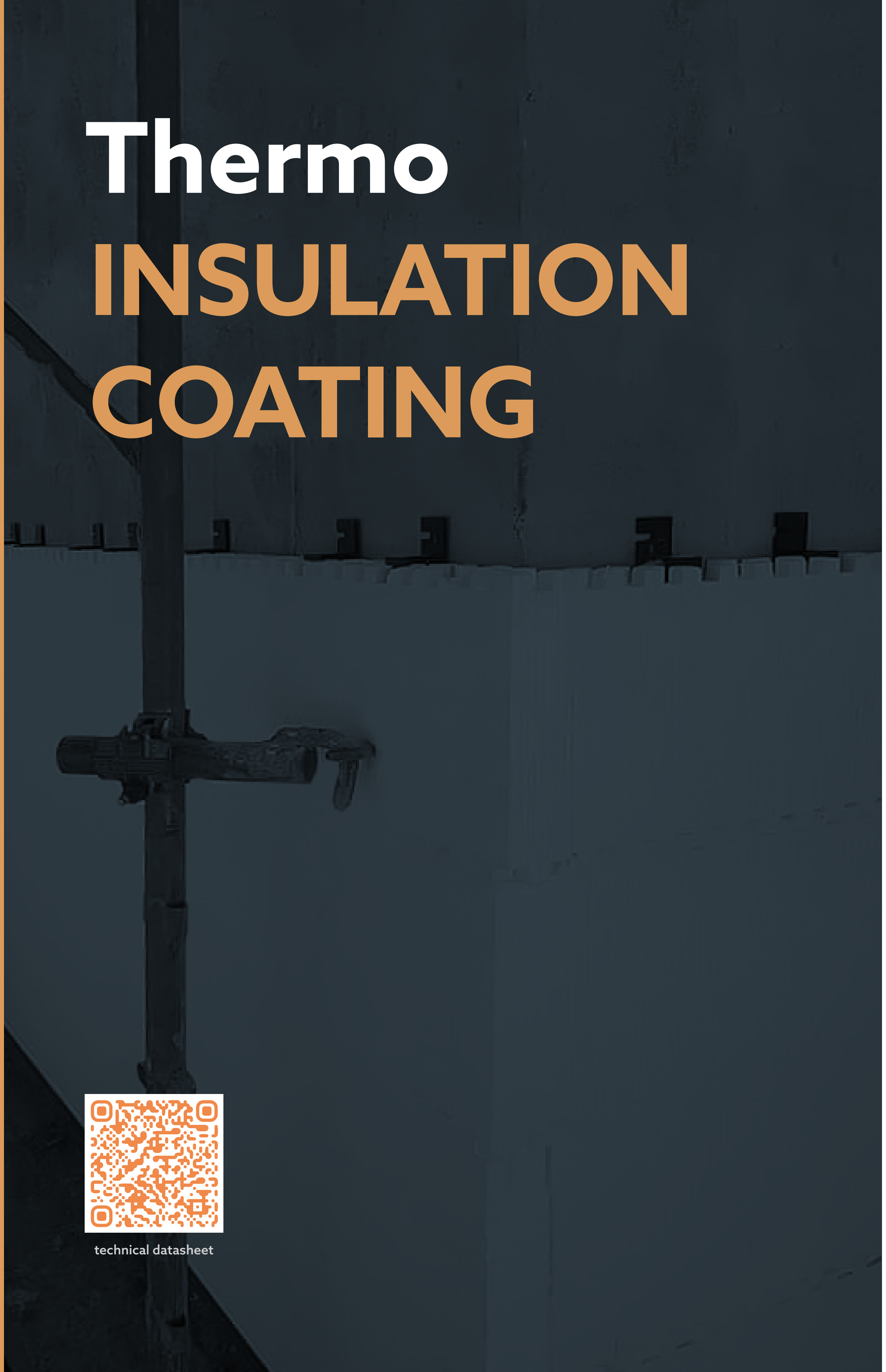
- **No waste and no warehouse storage**
- **No need for high-skilled workers**
- **40% less building site timings**
- **Its thermal insulation keeps a constant water temperature**
- **Can be made waterproof by using paste products (such as concrete based bi-component) or PVC sheets**
- **15% less concrete usage**
- **It allows for perfect coplanar assembly with its tongue and groove joint**





Thermo Pool
is available in either straight and curved walls, and we can use inserts to change the curve radius.

Thermo INSULATION COATING



technical datasheet

Thermo Insulation Coating is a new way of designing the insulation of buildings. It comes from the need of limiting the most common problems of this kind of insulation, such as the borders of the panels raising, and the wait during the mechanic anchorage of the panels through mushroom type dowels.

The geometries, with tongue and groove joints, ensure their perfect coplanarity by locking them to each other. Our innovative retractable dowels guarantee a perfect front surface without those classic "dowels swellings".

Supply
Thermo Insulation Coating is ready for moulding and comes planar, squared and detensioned.

Laying the Thermo Insulation Coating
Thermo Insulation Coating needs some adhesive to adhere to the laying substrate, as well as retractable dowels with a 6/m2 ratio. The panels locking system is a tongue and groove "dry" link. The perfect squaring of both panels and coupling makes it quick and easy to do the laying and gives an entirely and automatically coplanar result: impossible to make mistakes.

During and after laying the Thermo Insulation Coating
The many notches make thick coupling matrix which distributes the tensions due to dilations and to the insulating system. This avoids deformations which can also lead to the wall detachment: Once you assemble the Thermo Insulation Coating panels, the wall is going to be just like one single detensioned one, as panels always come coupled. Once you finish the laying, the surface will be perfectly coplanar, with no visible dowels, which would otherwise need some levelling in order to even them out. The wall will have no thermal bridges. Furthermore, glueing and bolting the insulation coating at the same time reduces significantly waiting times at the building site.

+ System benefits

- No waste and no warehouse storage
- No need for high-skilled workers
- 40% less building site timings
- No thermal bridge, homogeneous facade material
- 15% less levelling material used
- Installation through simple 8 mm Fischer dowels
- No dowels (mushroom type) visible in the facade
- Perfectly coplanar to the facade, even with sidelight

Thermo Insulation Coating
has only two elements, the retractable dowel and the tongue and groove coupling panel.

Thermo
ACCESSORIES

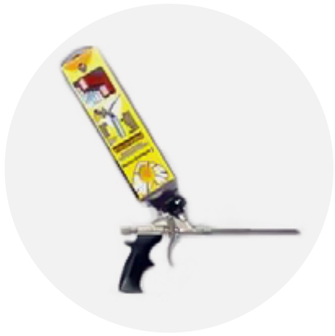
Professional aligning systems
with the footbridge

Basic aligning systems
with no footbridge

DUAL floor formwork systems

Hot-wire cutter
with two additional wires

Hot-blade cutter
with accessories



Polyurethane foam
To seal and glue EPS panels

Insulated window mono-block
to use during the laying phase as provisional carpentry, after forms dismantling they make the topsides and the formwork for possible blinds and shutters



EDsystem

ABOUT THE COMPANY

We are one of the most prominent companies when it comes to ICF construction system based on foam polystyrene used to build anti-seismic, very high energy-saving buildings.

What makes us unique is that we have studied a system which is extremely simple and versatile, for planners, entrepreneurs and clients alike. Time savings (and so cost saving) and protection of the environment are of utmost importance in our systems.

We have been making safe and comfortable houses for over 20 years all over the world, from small villas to huge building complexes. The **ED System** line is the only ICF system complexly designed, developed and produced in Italy. The Italian talent applied to construction technology!

Our new company comes from fusing the **Carbon ED System** expertise with ECOdomus Sardegna, which acquired the license for the **Carbon ED System®** brand and becoming the only **ED System** by **ECODomus Sistemi s.r.l.** licensed dealer.

Our production facility is located in the outskirts of Milan, providing the entire country.

All our building systems can be made in white EPS, or with added graphite, and they are all CE 13163 certified.

TRAINING AND PROMOTION

Italian regulations relating to construction has gone quite far in this last few years, and this made it possible for our company to continually evolve, improving our products continuously and always looking for the next challenge.

So, aside from participating to the most important conventions of the field, we are always trying to organise small workshops or open days at our facilities for planners, companies, real estates or professional bodies that require it.

All our new clients receive the training and assistance during the first days at the building site, along with complete technical manuals before starting the job.

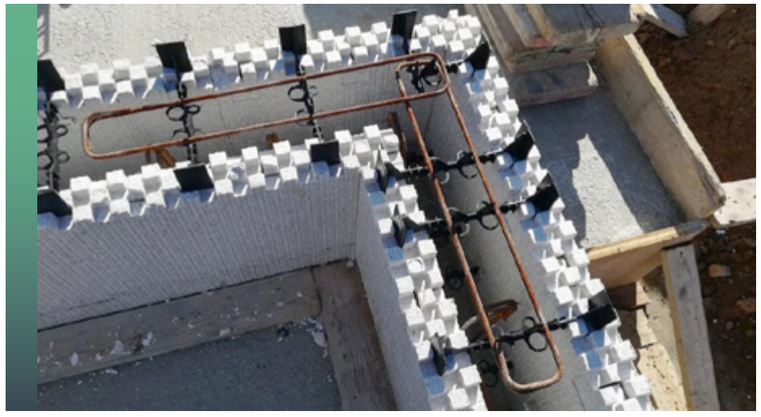
We don't like waste, and same goes when it comes with construction systems. So we reduced the waste to almost zero, and we try to apply this concept to everything we do.

When everything runs on the web, we thought using classic marketing methods would be unfruitful. We have decided to print only this brochure where we explain the general concepts of ED System.

All our other catalogues and insights are available digitally, and you can download them through the QR codes next to each section of the building systems in this catalogue. Alternatively, you can download them on our website. Let's not waste any more paper.

EDsystem

OUR BUILDING SITES AROUND THE WORLD

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edsystem.it - info@edsystem.it

100% made in Italy