TECHNICAL DATA SHEET

C.P.A. S.R.L.

EPS BLOK

DISPOSABLE ISOTHERMAL FORMWORK FOR THE CONSTRUCTION OF SWIMMING POOLS IN REINFORCED CONCRETE

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FEATURES

EPS BLOK preformed modular formwork in EPS 200 according to EN 13163 standard.
The EPS BLOK formwork is a preformed system for the rapid and clean construction on site of reinforced concrete swimming pools, in which it is used as isothermal disposable formwork.
EPS (Sintered Expanded Polystyrene) guarantees that the formworks are stable, rot-proof and waterproof, maintaining these characteristics over time. The raw material used to make the blocks is the same used to make food containers and is able to allow the product to withstand both thermal and mechanical stress unchanged.
EPS is an eco-compatible material fully integrated into a recycling cycle, starting from production waste: the unused material is re-generated to produce new products, so much so that it is accompanied by a declaration of eco-compatibility. EPS is characterized by closed cells in which the air is forfeited: this characteristic determines both its lightness and its excellent thermal capacity. The transmission of heat can only take place by conduction and the presence of the internal air, in equilibrium with the external air, allows the EPS to maintain its conductivity stable over time.
The EPS BLOK modular formwork is made by molding with a nominal density of 30 kg/m3 and with a thermal conductivity equal to λ=0.033 W/mK.

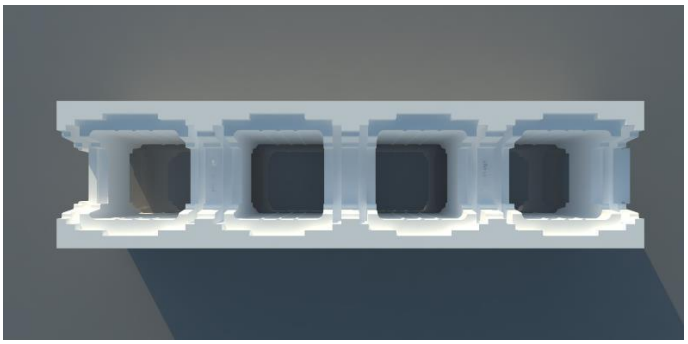
EPS BLOK VERSIONS

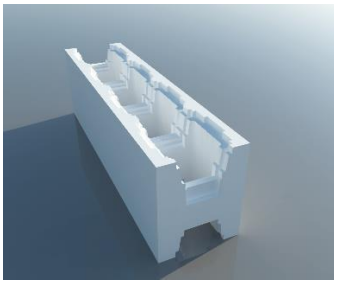
- EPS BLOK straight
- EPS BLOK curved 90°
- EPS BLOK curve 1500
- EPS BLOK curve 2000
- EPS keys for corners

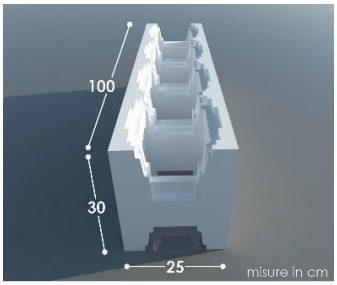
Geometric features

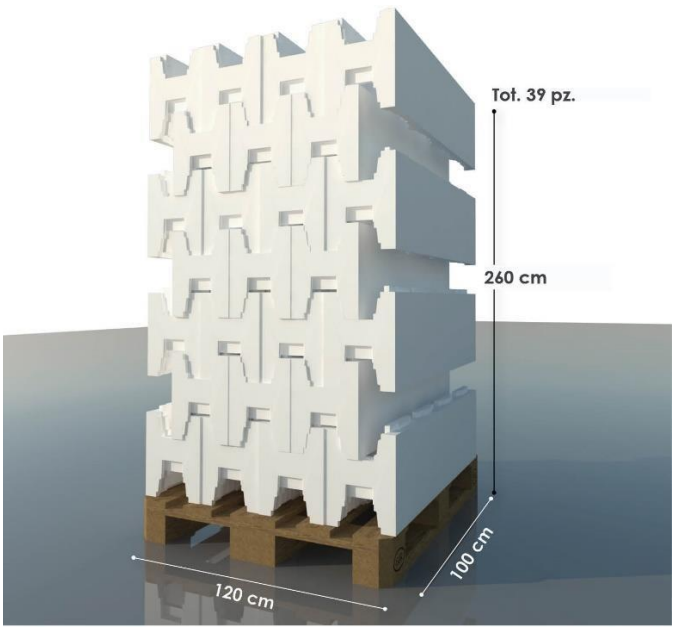
Straight module - cod. 1064000

Each block can be divided into 4 modules, dimensions: 1000 x 25 x h 30 cm
Packing dimensions – 260 x 100 x 120 cm – 39 pcs (total weight ~53 kg)



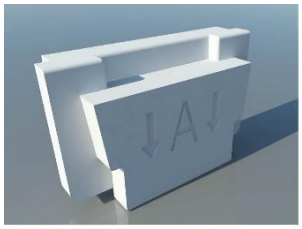


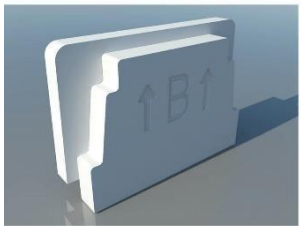


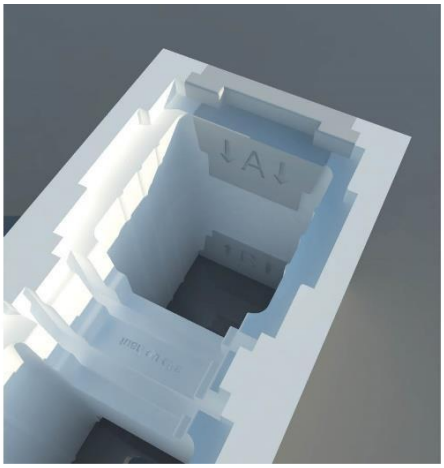


Corner EPS keys - cod. 1064001

Pack containing 25 keys type A (upper) and 25 keys type B (lower). Box dimensions – 41 x 50 x 38 cm – 50 pcs (total weight ~1,3 kg)



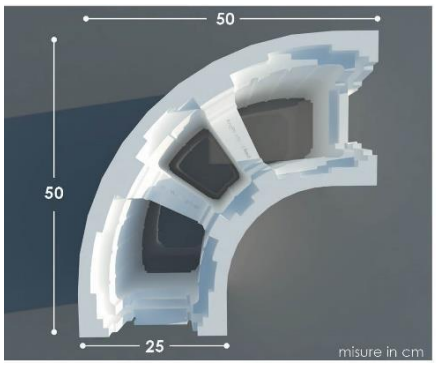


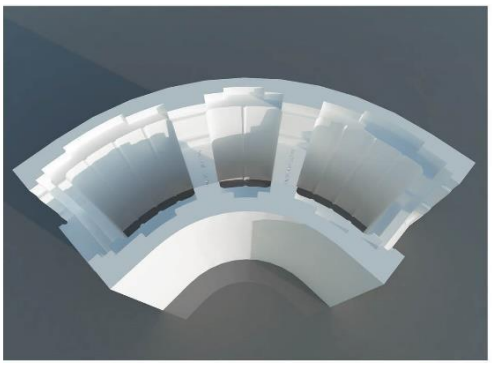


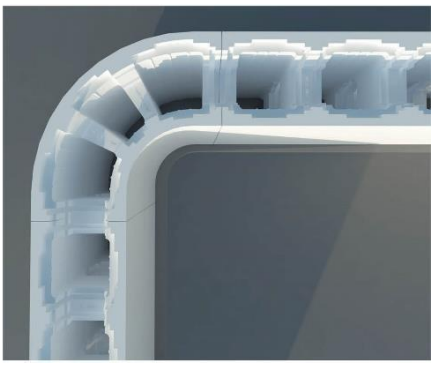

Chiusura dell'angolo con le chiavette / *Corner closing with the key*

Module curve 90° - cod. 1064002

Module dimensions: 50 x 50 x h 30 cm
Packing sizes – 128 x 75 x 122 cm – 16 pc (total weight~10,50 kg)





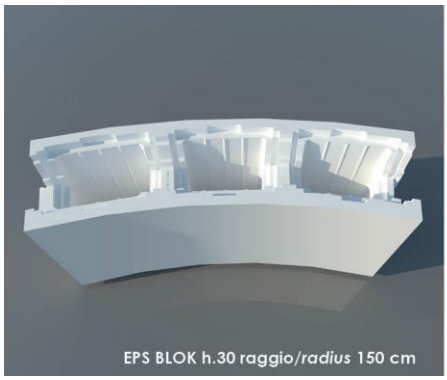


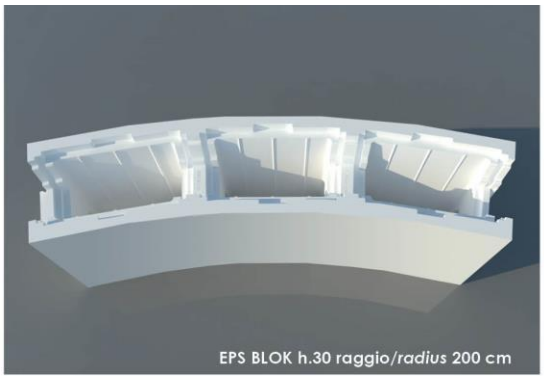
Curve module 1500 - cod. 1064003

Module radius dimensions: raggio 150 x 25 x h 30 cm
Packing sizes – 92 x 57 x 122 cm – 8 pc (total weight ~7,50 kg)

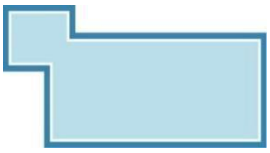
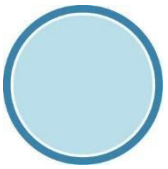
Curve module 2000 - cod. 1064004

Module radius dimensions: 200 x 25 x h 30 cm
Packing sizes – 118 x 60 x 122 cm – 8 pc (total weight ~9,00 kg)


EPS BLOK h.30 raggio/*radius* 150 cm


EPS BLOK h.30 raggio/*radius* 200 cm

Some shape you can realize with EPS BLOK

 *Straight EPS BLOK i + keys*	 *Straight EPS BLOK i + keys*	 *Straight EPS BLOK and pre-curves (radius 150/200cm) + keys*
 *Straight EPS BLOK + 90° curved EPS BLOK*	 *Straight EPS BLOK + Pre-curved EPS BLOK (radius 150/200cm)*	 *Pre-curved EPS BLOK (radius 150/200cm)*
 *Straight EPS BLOK+ 90° curved EPS BLOK + pre-curved EPSBLOK (radius 150/200cm)*	 *Straight EPS BLOK+ 90° curved EPS BLOK + Pre-curved EPS BLOK (radius 150/200cm)*	

Behavior in water

The water does not dissolve the EPS, it passes through the walls of the closed cells of the material constituting the EPS BLOK formwork and therefore cannot be absorbed.

Dimensional Stability

The coefficient of linear thermal expansion of the EPS, the material constituting the block, is equal to 0.05 mm/m*K. This exceptional performance is possible because the EPS cells, during expansion and sintering, undergo regular swelling in all directions without stretching or deformation, so as to obtain an isotropic product, without tension and therefore endowed with a balance physical-mechanical stable over time.

Behavior of the chemical agents

EPS BLOK is not affected by current building materials: the only recommendation is to pay attention to waterproofing treatments that may contain polystyrene solvents.

Inert substances for EPS:	Substances that attack or destroy EPS:
- water, sea water, saline solutions - building materials (lime, cement, gypsum…) - Salts (e.g. saltpetre efflorescence), fertilisers - Alkaline solutions (hydrate, sodium and potassium, ammonia solutions, water, liquid fertilizers) - Soaps and synthetic detergents - Diluted acids and weak acids (e.g. citric, carbonic, uric acids…) - Concentrated acids (hydrochloric 35%, nitric 50% sulfuric 95%) - Alcohols (methyl, ethyl…) - Glycols, glycerin - - Bitumen, adhesives and water-based bituminous masses.	- esters (acetates, phthalates, paint thinners) - ethers (ethyl, glycolic, dioxane) - halogenated organic ketones (turpentine, carbon tetrachloride, fluorocarbons) - Halogenated organic compounds (turpentine, carbon tetrachloride, fluorocarbons) - amines, amides, nitriles - aromatic hydrocarbons (benzene, styrene, toluene...), cyclohexane - petrol and petrol vapours - diesel, fuel oil, paraffin oil, vaseline (substances with more limited action) - white spirit, turpentine - bitumen and bituminous masses with solvents - tar derivatives

Note:

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