

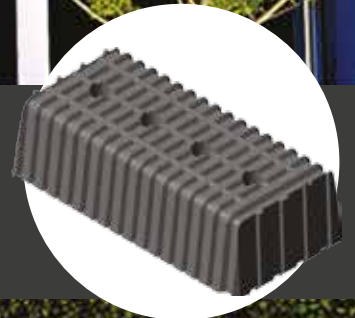


airplast

element for unidirectional slabs



- WATERPROOF
- LIGHTWEIGHT
- STACKABLE





AIRPLAST VISION

Geoplast invites you to discover the power of lightness and to build without wasting natural resources. Even in this way can we sustain the future of our existence.

RECYCLING, OUR CHOICE

Not only we transform our ideas into innovative and successful products, but we also commit into the study and selection of more suitable materials to guarantee an high quality while respecting the environment.

Polypropylene (PP) is a recyclable material that can be obtained from plastic waste regeneration.

It's solid and strong with high load-bearing capacity and resistance to abrasion. Moreover, it guarantees an effective thermal insulation and it does not fear weathering.

Geoplast S.p.A. in Green Building Council Italy.
The Network of Green Building.





AIRPLAST IS SUITABLE FOR:

Plastic lightening for prefabricated slabs.
AIRPLAST comes from Geoplast long experience with slab lightening elements. **AIR-PLAST** can be easily installed onto the concrete



slabs during the production stage with a perfect alignment. This is possible thanks to its anchoring and alignment system.

■ BASEMENT
CAR PARKS

■ MULTI-STOREY
CAR PARKS

■ PREFABRICATED
SLABS

■ UNIDIRECTIONAL
CAST ON-SITE SLABS

■ COMMERCIAL
BUILDINGS

■ INDUSTRIAL
BUILDINGS

AIRPLAST ADVANTAGES



The most advanced system for the lightening of prefabricated slabs and the construction of completely cast on-site slabs



storage

As the lightening is made of plastics, the forms can be stored in any place without any damage.



fast

Installation is extremely fast, the lower locking system allows anchoring to the fresh concrete.



walkable

AIRPLAST is completely walkable, without the risk of breakage at the edges as it happens with polystyrene.



no soaking

AIRPLAST is made of polypropylene, a waterproof element which prevents and avoids any soaking issues.



no vents

Within the formwork there is only air. There is no need for ventings as on polystyrene systems require.



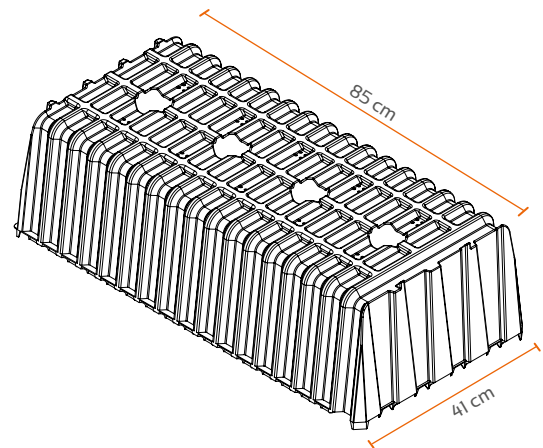
finishing

The previous advantages ensure a perfect finishing of the intrados in a workmanlike and long lasting over time.

AIRPLAST THE VERSATILE FORMWORK



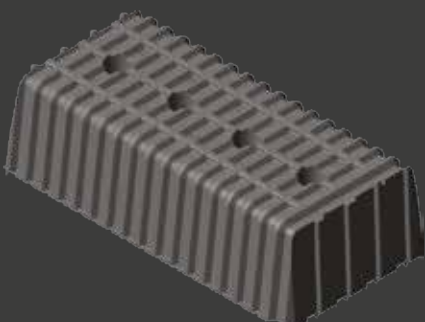
- Ⓐ CENTRAL CONTROL CONES
- Ⓑ SIDE STIFFENINGS
- Ⓒ LOWER FEET



SIZE	
Length	75-85 cm
Heights	9-12-13-16-17-20-21-24 cm
Width	32,5-41 cm

AIRPLAST MATERIAL	
Polypropylene	PP
Coefficient of thermal expansion	0.15 mm/m/°C

Why the central cones



HIGH LOAD-BEARING CAPACITY

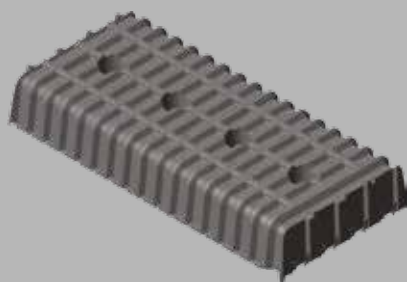
The central cones are necessary to ensure the stiffening of the formwork in order to guarantee the maximum safety during the construction stages.

LIMITATION OF LATERAL DEFORMATION

The cones work as containente elements to avoid the formwork deformation when stepped on.

Items and accessories

DIMENSIONAL TABLES



**AIRPLAST
H12**

85 x 40 x H12

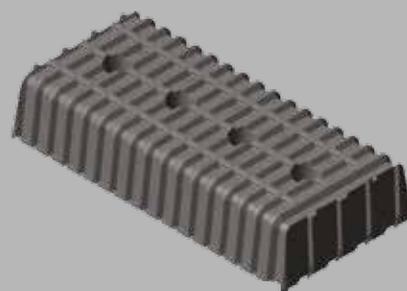
Polypropylene

1.61

85 x 120 x H232

300

Actual size (cm)
material
weight (kg)
Package size (cm)
No. items per pallet



**AIRPLAST
H16**

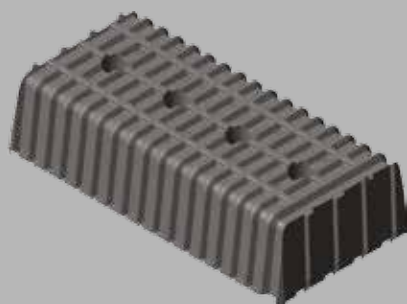
85 x 40 x H16

Polypropylene

1.92

85 x 120 x H236

300



**AIRPLAST
H20**

85 x 40 x H20

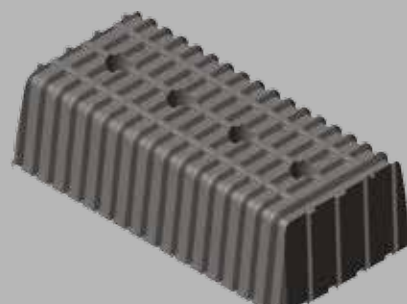
Polypropylene

2.26

85 x 120 x H240

300

Actual size (cm)
material
weight (kg)
Package size (cm)
No. items per pallet



**AIRPLAST
H24**

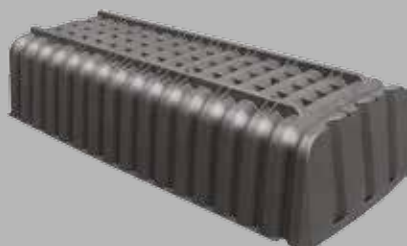
85 x 40 x H24

Polypropylene

2.52

85 x 120 x H244

300



AIRPLAST G-H9

Actual size (cm) 73.5 x 31.5 x H9

material Polypropylene

weight (kg) 1.20

Package size (cm) 100 x 120 x H240

No. items per pallet 350



AIRPLAST G-H13

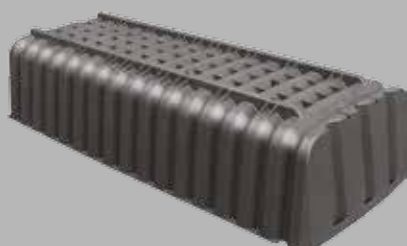
Actual size (cm) 75 x 32.5 x H13

material Polypropylene

weight (kg) 1.25

Package size (cm) 100 x 120 x H240

No. items per pallet 350



AIRPLAST G-H17

Actual size (cm) 75 x 32.5 x H17

material Polypropylene

weight (kg) 1.30

Package size (cm) 100 x 120 x H240

No. items per pallet 350



AIRPLAST G-H21

Actual size (cm) 75 x 32.5 x H21

material Polypropylene

weight (kg) 1.35

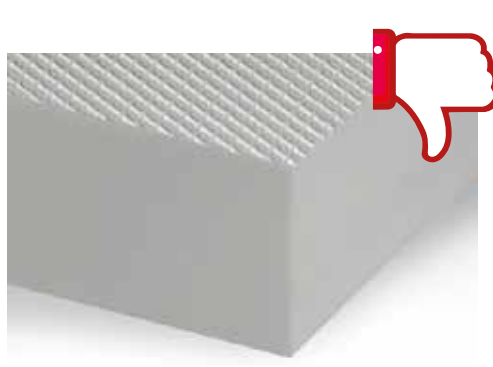
Package size (cm) 100 x 120 x H240

No. items per pallet 350

Actual size (cm)
material
weight (kg)
Package size (cm)
No. items per pallet

Actual size (cm)
material
weight (kg)
Package size (cm)
No. items per pallet

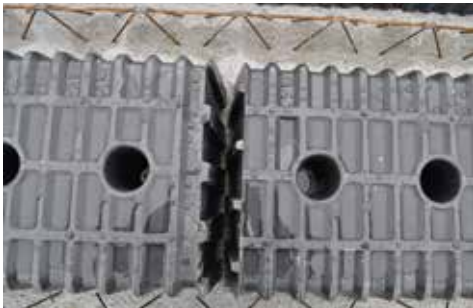
WHY IS IT BETTER TO AVOID POLYSTYRENE



AIRPLAST has lower feet (15 mm) that allow the perfect fusion with the concrete of the base slab, thus avoiding any further movement.



AIRPLAST is made of polypropylene which guarantees an high resistance and prevents any risk of breakage during the building stages.



AIRPLAST is waterproof, it does not retain or release water over time. It prevents the creation of humidity (mold, stains...).



As the formworks are waterproof, there's no risk of water retaining: the finishing of the slab intrados will always be perfect.



AIRPLAST does not contain any harmful or explosive gas, so there is no necessity of vents for the REI slab



CURBS AND LATERAL OFFSETS

Lateral Offsets

As **AIRPLAST** is made of recycled polypropylene, it can be cut quickly and easily to make offsets. In the upper side the formwork is marked in the exact point where to be cut in order to obtain a correct overlapping of the forms. The cut formwork allows also to follow very precisely any possible inclination of the walls.

AIRPLAST keeps the construction site clean when it is cut because it does not create the waste polystyrene usually creates.

Easy to cut
 Clean construction site
 Precise and safe overlapping



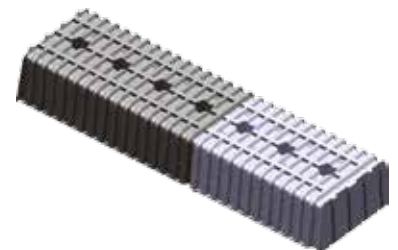
LENGTH 85 cm



LENGTH 104 cm



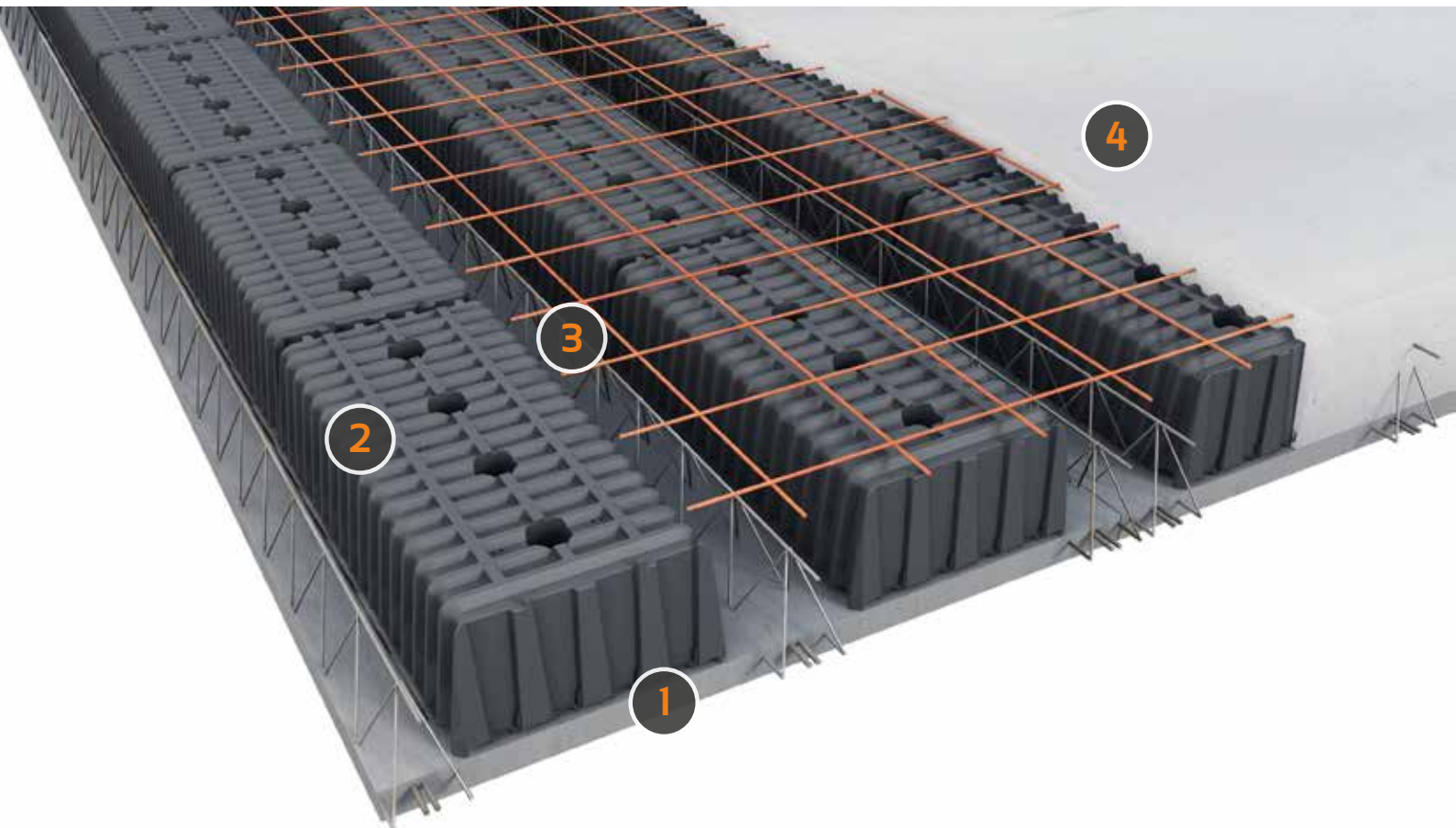
LENGTH 124 cm



LENGTH 143 cm

AIRPLAST - PREFABRICATED SLABS

AIRPLAST formwork can easily be combined with prefabricated slabs. The elements are placed over the fresh concrete and then moved to the construction site ready to be installed.
Compared to the polystyrene, **AIRPLAST** allows lots of logistics and efficiency advantages.



- 1 Lower base built in the factory with already inserted reinforcement bars and trellis
- 2 **AIRPLAST** formwork of precalculated height, which are to be installed in the factory over fresh concrete
- 3 Pre-installed load-sharing welded mesh
- 4 Final pour of the ribs + upper slab

Application with **prefabricated slabs**



Predalles slabs are commonly identified as a semi prefabricated slab which is composed by a base slab, reinforcement trellis and a lightning system; it is produced in a factory and then moved to the construction site. The construction is finished there with the installation of the upper reinforcement and the final pour.



ON-SITE LIGHTENING

Building on-site

With **AIRPLAST** it is possible to build cast on-site slabs, such as unidirectional and bidirectional slabs with large spans. **AIRPLAST** eliminates the use of polystyrene and steel and concrete consumptions are

greatly reduced. The high load-bearing capacity and impermeability of **AIRPLAST** formwork facilitate the building operations, permitting the creation of a perfect slab.

High load-bearing capacity
Does not fear weathering
Lightweight and manageable





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