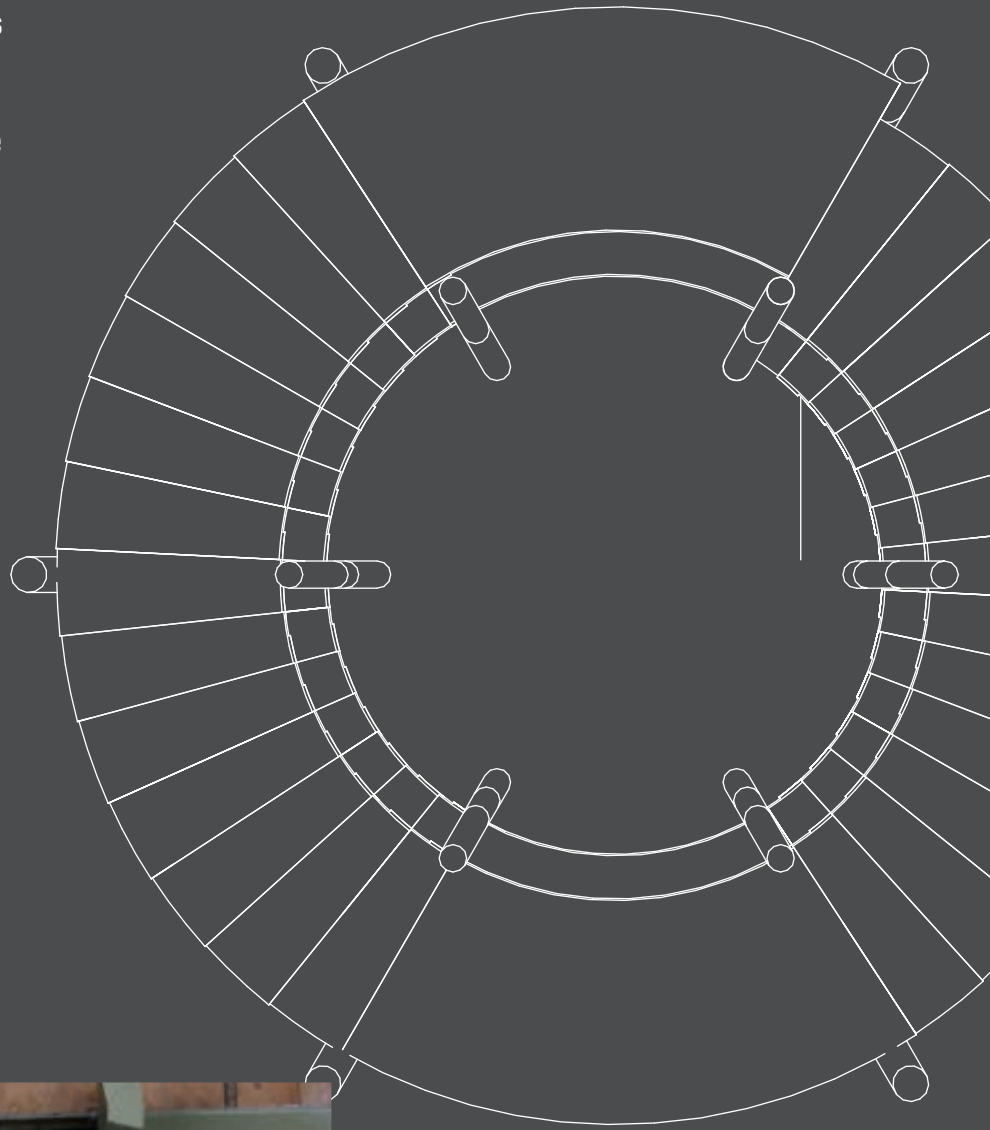


# FORMWORK FOR STAIRS

Arbloc has introduced computer design in the production of formworks for stairs. This allows us to be precise in the development of 3D shapes based on drawings, the same result would be difficult to achieve with traditional wood carpentry.

From the 3D model, we move to the processing of polystyrene foam using numerically controlled cutters and faithfully respecting the geometries. The resulting a formwork allows the company to obtain a uniform concrete casting on the steps and the helical plane.



# formworks for soffits (the underside of stairways)

Arbloc's formworks for stairs are made of coated polystyrene foam.

Arbloc's cutting system enables the creation of complex shapes.

Uniform concrete thickness is guaranteed both on the inside and outside of the staircase, and from bottom to top, in accordance with project dimensions.

The coatings are chosen based on the needs of the construction site and the project.



## FORMWORK PERFORMANCE FEATURES

TYPE	WINDER STEPS	SPIRAL	ZIG-ZAG STEPS
Compression resistance of polystyrene with $\leq 3\%$ deformation	40 - 60 - 100 KN/m <sup>2</sup>	40 - 60 - 100 KN/m <sup>2</sup>	40 - 60 - 100 KN/m <sup>2</sup>
Coating	Resin Syform	Resin Syform	MDFSy - Galvanized sheet steel 3/10 - 5/10
Coating deformation resistance	3 - 3.5 - 4 kgf./cm <sup>2</sup>	3 - 3.5 - 4 kgf./cm <sup>2</sup>	30 - 4 - 5.2 kgf./cm <sup>2</sup>
Sizes of the parts	As required	As required	As required
Connections with straight ramps	Yes, on request	Yes, on request	NO
Installation instructions	YES	YES	YES
Treadability	Partial	Partial	YES
Reuse	YES	YES	YES
Fair facing	Yes, on request	Yes, on request	Yes, on request
Release agent	CIRE LM33, 120 m <sup>2</sup> /kg, applied with a cloth	CIRE LM33, 120 m <sup>2</sup> /kg, applied with a cloth	CIRE LM33, 120 m <sup>2</sup> /kg, applied with a cloth

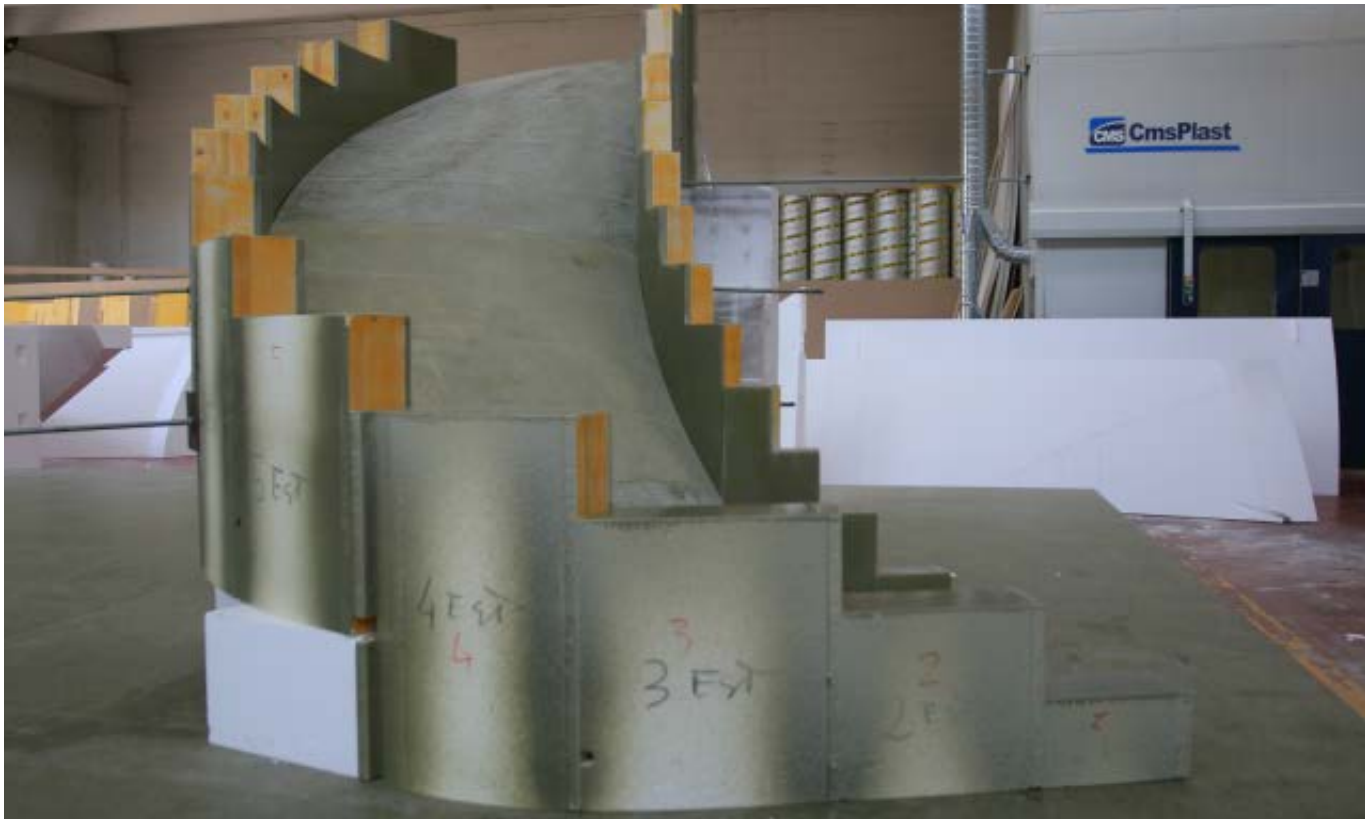
# setting up

Formworks are produced in parts to facilitate handling in the building yard. Each element groups two or three steps on a falsework.

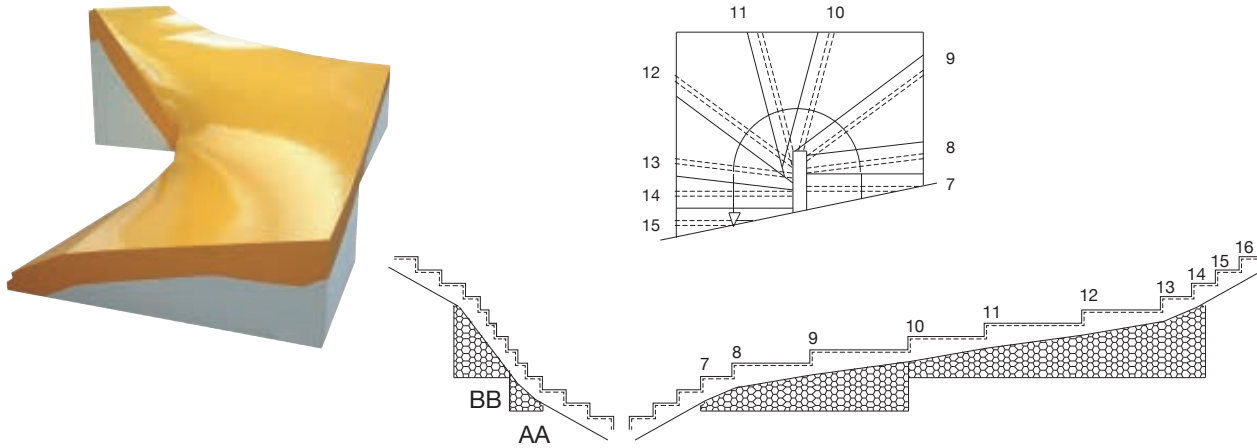
The side supports are made upon request, otherwise we proceed with traditional wooden carpentry, consisting of vertical laths. The operation is facilitated since the polystyrene has markings at the risers.

Side supports provided by Arbloc can be of two types:

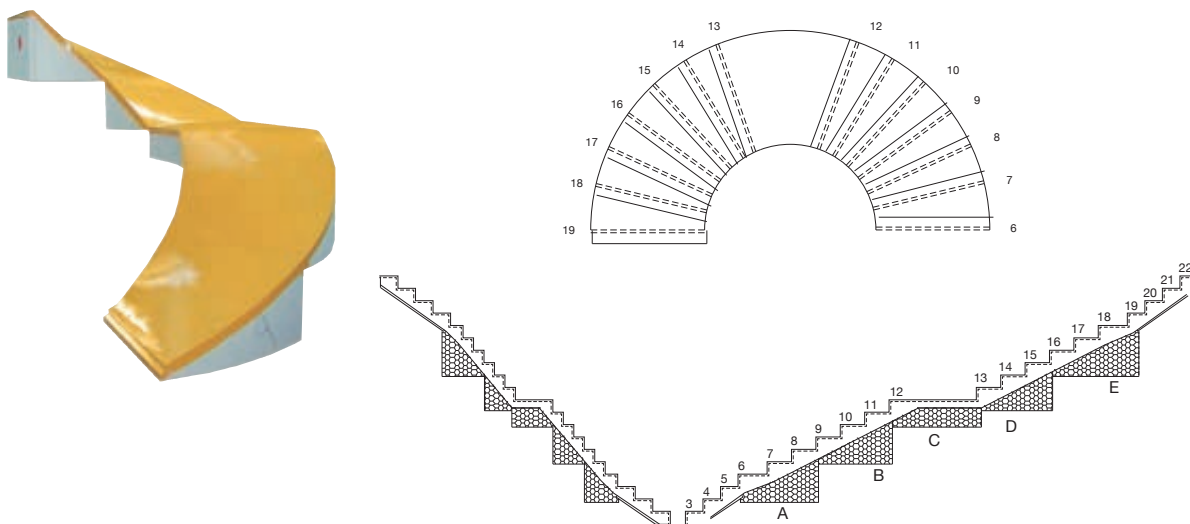
- Non-structural, consisting of a shaped sheet that must be supported by wooden carpentry. It is used as a guide or fair facing.
- Structural, consisting of polystyrene and boards on which it is possible to directly screw the riser panel.



# SPIRAL STAIRS with winder steps



# circular/elliptic type SPIRAL STAIRS



# circular/elliptic type ZIG-ZAG STAIRS















