

**PLAKA - STABOX****Reinforcement connection box**

REF 01.01.01 - Version V01 - 26/08/2020

**Subject**

The supply and installation of STABOX rebar casing in construction joints of concrete structures, in which starter bars with a 6 to 12 mm diameter are folded.

**Description**

The folded reinforcing bars inserted in the casing are in steel B500B and may be unfolded on site. The bars are centered at regular distances. They are bent around mandrels with standardized diameters and installed in a steel connection box, which is closed with a cover and with two removable polystyrene caps.

To get an optimal anchorage at the construction joint and in order to avoid any crack appearance of the joint generating the corrosion of the waiting bars, the connection box has to comply with the following criteria.

- The box should have a dovetail profile, in order to realize a mortise and tenon anchorage between the two concrete pours, which will be clamped automatically during the shrinkage of the concrete. The casings with a width higher than 90 mm present 2 or 3 dovetail profiles.
- The anchoring box is profiled so that shear loads can be transmitted at the construction joint, The corrugated surface and its diamond shaped pattern increase its resistance against the concrete slip.
- The disbond of the edges during the second concrete pour, the removal of the timber formwork or the steel cover of the casing, is not allowed. The casing needs to remain perfectly anchored on its full length in the first phase concrete. For this reason, the edges of the casing are folded so that they remain completely anchored in the first concrete phase.

The waiting bars have to be unfolded without presenting any “bayonet” shape.

**Position**

The connection box is installed in the construction joints. The box can be placed in horizontal and vertical joints as well.

**Installation**

Installation has to be conform to the installation instructions of the manufacturer.

Unfold the bars by using a special bending tool, so that the bars do not present any “bayonet” shape..

**Mark**

STABOX from PLAKA or equivalent

**Measurement**

STABOX per meter depending on the type.

©Copyright protected

This sheet, written with great care, supersedes all previous versions. The technical information on the design, models, illustrations, design values and specifications are believed to be accurate. We make no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with non suitable use of this product. We reserve the right to modify the contents of this form without prior notice.