

STABOX®



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CRETECO

Improving Concrete Construction

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Reinforcement Connection System



▲ Walls and floors tied to circular structure.



▲ Stabox® securing the connection between core and office storeys.



▲ Use of Stabox® in curved sliding formwork.



◆ Non obstructing to climbing formwork.



It would be difficult to imagine a modern reinforced concrete structure without the use of a prefabricated reinforcement connection system.

The Problem

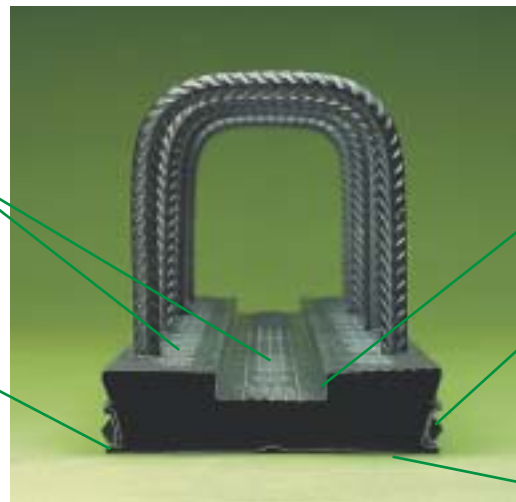
- Complicated Reinforcement Projection
- Difficult Working Access
- Site Safety Problems
- Slow Construction
- Form and Steel Fixers Required

The Solution

- Simple Reinforcement and Form Design
- Easy Formwork Access
- Clean and Protected Starter Bars
- Accelerated Schedules
- No Expensive Labour Problems

The unique dovetail profile of the metal case gives an excellent anchorage in the concrete.

The fourfold dovetail profile with numerous notches in the middle section and a roughened surface gives almost 100% bond.



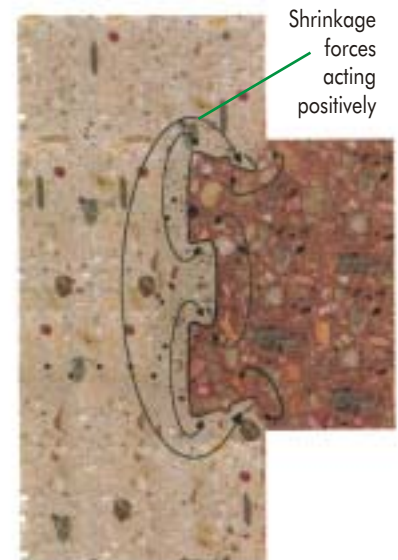
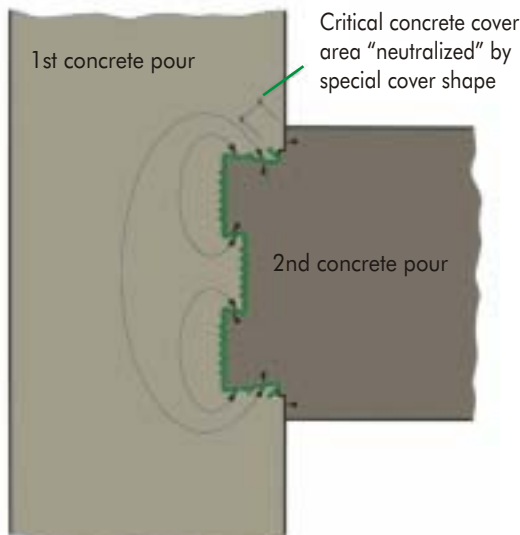
Notching and special profiling of the steel case.

The profiled shape of the cover positions the edge of the Stabox case away from the concrete joint to increase corrosion protection.

Multiple dovetail profile

External lock seam for additional concrete anchorage

Stable and weatherproof sheet steel cover



You can fix the Stabox[®] reinforcement connection system in place by either

- a) Nailing it to the formwork (timber formwork)
- b) Riveting it to the formwork (metal formwork)
- c) Welding or tying it to the reinforcement (sliding formwork)



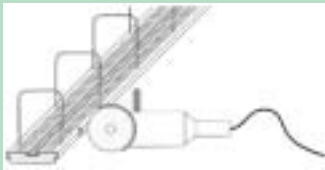
Opening the rear cover

Break through the rear cover near the edge using a claw hammer. Lever the cover out of its dovetail groove along the whole element length on one side. The cover can then easily be removed from its anchorage.



Fixing to curved formwork

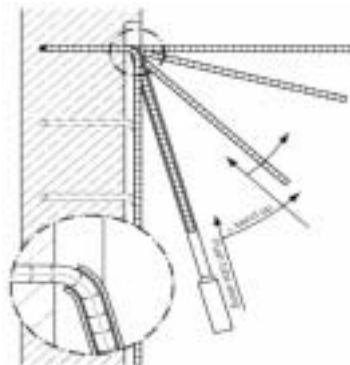
The side of the case should be cut with a disc cutter. 2 to 4 cuts depending on radius need to be made. This means that the case loses its rigid strength and can be adapted to the curved formwork.



Caution!

The interior reinforcement must not be damaged!

Bending back the lap length l_u from the case



Please note that only suitable tools are used for rebending.

Instructions for rebending

- Lift reinforcement slightly and bend up to an angle of 20° maximum from the case.
- Using the rebending tool, bend the reinforcement straight in around 10 stages.

The rebending tool should always be pushed as far as possible towards the reinforcement lap length base and the steel should only be bent slightly (see sketch)

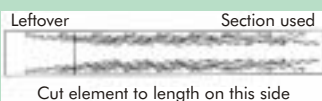
Push rebending tool towards base and bend again.

Repeat this bending process in stages, until the reinforcement is exactly straight. Check for straightness, if necessary.

- Do not carry out rebending at temperatures below -15 °C.
- Repeated bending back and forward will weaken reinforcement.

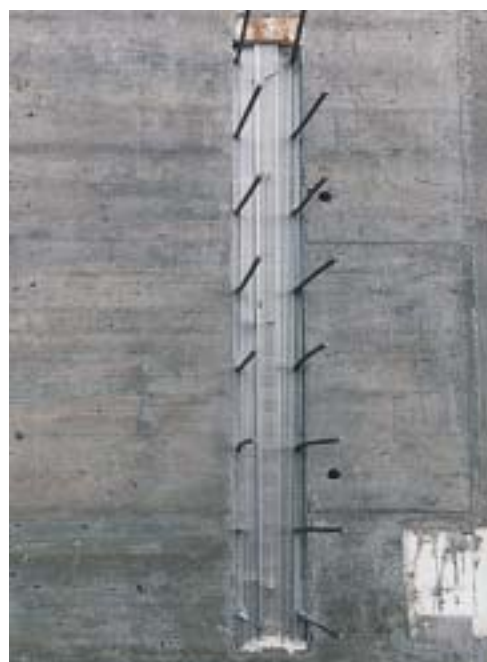
Shortening Stabox[®] on site

Slide the rear cover back to see which direction the stirrups are bent. Cut the unit without cutting through any of the stirrups in the section to be used. The rear cover should be pushed back on and the required size marked on it.



Cut through from the rear side of the Stabox[®] with a disc cutter.

Replace the polystyrene closing piece in the section of the Stabox[®] to be used.



▲ Stabox[®] reinforcement correctly rebent