

New flexible lifting anchor for twin walls

The ECA-Lift Anchor is a new flexible type of lifting anchor, designed to have maximum efficiency when constructing and building concrete walls. The ease of installation, its light weight and strength of the anchor guarantee a high degree of safety when transporting and installing concrete walls. The use of a GFRP bar reduces, even eliminates, the cold bridge effects between the two concrete layers.

The ECA-Lift anchor uses a fiberglass compression element in connection with a steel wire. Upon load, the forces are equally distributed through the steel cable whereas the fiberglass compression element only serves as a spacer between the steel cables. The anchorage of the steel cable is distributed over the whole length of the cable. The fiberglass compression element has no thermal bridge which is a difference compared to a steel crossbar.

The most important advantages of the new ECA-Lift anchors can be listed as follows:

- Very easy installation due to the flexible cable since the legs can be bended around recesses or reinforcements
- Compared to other anchors the weight of ECA-Lift anchors is only 20-40% because less steel with higher tensile strength ($> 1.770 \text{ N/mm}^2$) is used.
- Due to the reduced weight the ergonomics during installation as well as costs for transportation are significantly improved. One transport pallet can carry up to 3 times more anchors which reduces also warehouse storage.

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- If the thermal bridge shall be avoided after installation the cable is much easier to cut than solid rods of other anchor types
- Galvanized cable reduces rust problems when used outside in rain or aggressive environments
- While typical metal rods have a brittle failure mechanism without warning, the ECA-Lift cable breaks only gradually when overloaded (ductile fracture, strand by strand) so one is warned

FURTHER INFORMATION



ECONAC

Engineered Construction Accessories BV

Generaal de Wittelaan 10, 2800 Mechelen, Belgium

T +32 15 511190

info@econac.com, www.econac.com



The new ECA-Lift anchors facilitate an easy installation in the precast plant as well as on site