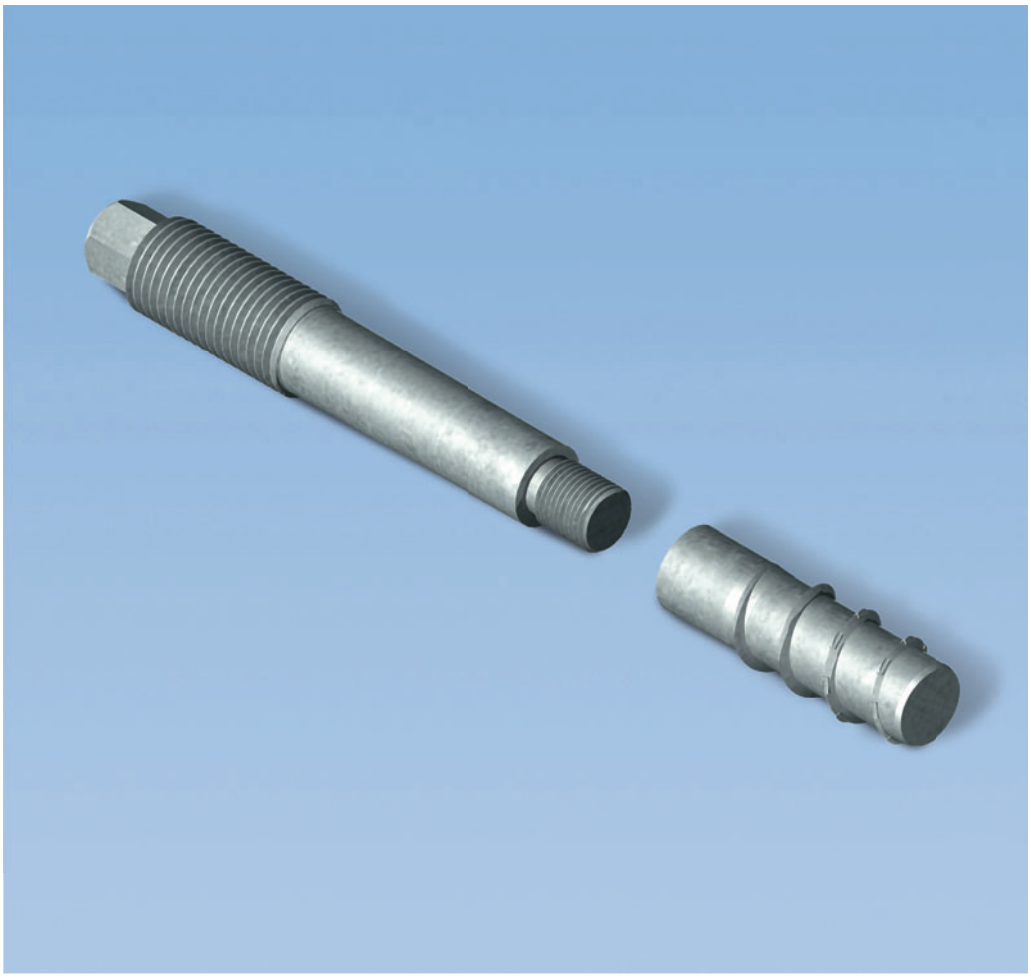
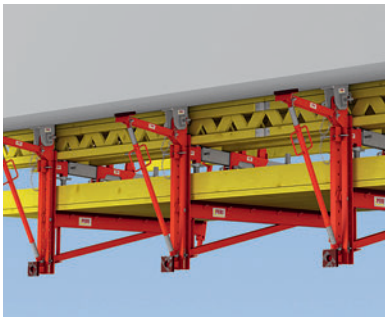
The VGK Parapet Bracket | Refurbishment Anchor

The optimal solution for refurbishment of cantilevered parapets

Product brochure





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The optimal solution for refurbishment of cantilevered parapets

The Refurbishment Anchor is used with the VARIOKIT VGK Parapet Bracket for the refurbishment of bridges or retaining walls. The two-part composite anchor consists of an Internal Threaded Sleeve and a Connection Bolt. In the process, the Connection Bolt can be re-used many times over as only the sleeve remains as a lost component within the required concrete cover in the bridge cantilever.

The flexible and highly efficient VGK Parapet Bracket was developed especially for refurbishment work. In connection with the new Refurbishment Anchor for subsequent installation, the result is a perfectly matched solution for major refurbishment operations. The anchor is approved by the German Institute for Building Technology (DIBt).

This complete system solution ensures maximum flexibility both in the planning and application, increases planning reliability and work safety as well as making assembly work easier. This leads to an increase in quality and ultimately to cost savings in the execution.

As the Refurbishment Anchor has a very high load-bearing capacity, only a minimum of anchoring points are required. The anchors are mounted in holes with 22 mm diameters. Because of its undercut design, the Refurbishment Anchor can be loaded immediately after being screwed in so that the bracket can be mounted directly and without any delay. Slipping out during overhead installation is not possible. It reaches its full load-bearing capacity shortly after the curing of the composite mortar. The required anchoring depth is ensured by the conical design of the Connection Bolt and guarantees maximum assembly safety.

High anchor load-bearing capacity

Large widths of influence resulting in reduced costs for anchoring, assembly and on-site material requirements

Example for the width of influence VGK*

- Cantilevered Parapet dimension H / W = 55 cm / 35 cm
- Thickness of bridges' cantilever h = 20 cm
- Inclination of cantilevers' soffit α_q = 10°
- Longitudial inclination of the bridge s = 2.5 %

Influence width of VGK b = 1,50 m

* Consider design rules of anchor approval project-specific!

The assembly sequence*

Step 1
Drill hole with d = 22 mm and 160 mm depth (perpendicular to the concrete surface); clean drilled hole with cleaning brush and blow-out pump

Step 2
Inject composite mortar

Step 3
Screw in Refurbishment Anchor by means of an impact wrench

Immediate assembly of the VGK Parapet Bracket

Through the undercut, suspension head and bracket components can be mounted immediately; directly after the composite mortar has cured, the mounted bracket is also accessible

Cost-effective fulfillment of the required concrete cover

The Refurbishment Anchor ensures realization of the required concrete cover, and no expensive stainless steel solutions are necessary

Re-usable anchor bolts

The Refurbishment Anchor consists of two parts of which only the Internal Threaded Sleeve is lost; the anchor bolt can be unscrewed and removed after use and can be re-used many times over. This facilitates dismantling work and saves costs.

The Refurbishment Anchor is approved by the German Institute for Building Technology (DIBt).

Two-part refurbishment anchor consisting of
- Connection Bolt M16/M24x50 (Item no. 130012)
- Internal Thread Sleeve TSM BC 22x100 IM 16 (Item no. 129637)

Accessories
- Composite Mortar CF-T 300 V (Item no. 129628)
- Mixer CF-T 300 V (Item no. 130013)
- Dispenser CF-T 300 V (Item no. 130014)
- Blow-Out Pump (Item no. 130015)
- Cleaning Brush D24 (Item no. 130011)

Step 4
Fixation of Suspension Head VGK with Nut M24

Step 5
Assembly of VGK Parapet Bracket

Step 6
Removal of re-useable Connection Bolt

* Follow assembly instructions!

The optimal System for every Project and every Requirement

Wall Formwork

Column Formwork

Slab Formwork

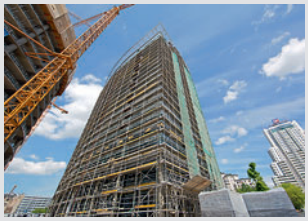
Climbing Systems

Bridge Formwork

Tunnel Formwork

Shoring Systems

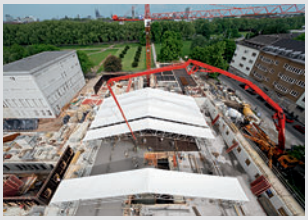
Construction Scaffold



Facade Scaffold

Industrial Scaffold

Access



Protection Scaffold

Safety Systems

System-Independent Accessories

Services

PERI GmbH
Formwork Scaffolding Engineering
Rudolf-Diesel-Strasse 19
89264 Weissenhorn
Germany
Tel. +49 (0)7309.950-0
Fax +49 (0)7309.951-0
info@peri.com
www.peri.com

Important Notes

Without exception, all current safety regulations and guidelines must be observed in those countries where our products are used. The photos shown in this brochure feature construction sites in progress. For this reason, safety and anchor details in particular cannot always be considered as conclusive or final. The information contained herein is subject to technical changes in the interests of progress. Errors and typographical mistakes reserved.

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