



ETAG 029

12

0679

DECLARATION OF PERFORMANCE

Sika AnchorFix®-1

| | | | | | | | |
|----|----|----|----|-----|---|--------|---------|
| 02 | 04 | 03 | 01 | 001 | 0 | 000001 | 5034408 |
|----|----|----|----|-----|---|--------|---------|

1. Product Type:

Unique identification code of the product-type: **Sika AnchorFix®-1**

2. Type batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Injection System* for use in masonry

***The injection system Sika AnchorFix-1® is a bonded anchor (injection type) consisting of a mortar cartridge with injection mortar Sika AnchorFix-1®, a plastic sieve sleeve and an anchor rod with hexagon nut and washer in the sizes M8, M10, and M12 or internal threaded sockets in sizes M8, M10, and M12. The steel elements are made of zinc coated steel.**

Technical specification in reference:
ETA-12/0227

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

Sika AnchorFix®

Sika Services AG
Tueffenwies 16
CH-8048 Zuerich
Switzerland

5. Contact Address:

Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

Not relevant (see 4)

6. AVCP:

System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

7. Notified body:

In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Not relevant (see 8)



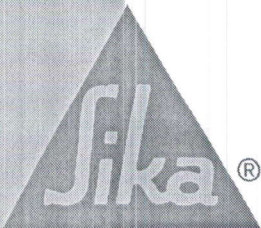
8. Notified body:

In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Approval body 0679 issued an ETA 12/0227 on the basis of ETAG 029.

Notified factory production control certification body No. 0679 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control, system 1, and issued the certificate of conformity of the factory production control (FPC) 0679-CPD-0777.

Declaration of Performance



9. Declared performance

Table 7: Characteristic resistance under tension and shear loading

| Base material | Anchor rods $N_{Rk} = V_{Rk} \text{ [kN]}^{1)}$ | | | Internal threaded sockets $N_{Rk} = V_{Rk} \text{ [kN]}^{1)}$ | | |
|----------------------------------|--|-----|-----|--|------|------|
| | M8 | M10 | M12 | M8 | M10 | M12 |
| Brick N° 1 | 2,5 | 2,0 | 2,0 | 1,5 | 2,5 | 2,5 |
| Brick N° 2 | 0,75 | 1,2 | 0,5 | - | 0,75 | 0,4 |
| Brick N° 3 | 1,5 | 1,5 | 3,0 | 2,0 | 3,0 | 4,0 |
| Brick N° 4 | 0,75 | 0,9 | 1,5 | 2,0 | 1,5 | 0,9 |
| Brick N° 5 | 1,2 | 1,2 | 0,9 | 0,9 | 1,5 | 0,6 |
| Brick N° 6 | 0,6 | 0,3 | - | 0,5 | 0,3 | 0,75 |
| Brick N° 7 | 0,6 | 1,5 | 1,2 | - | 0,4 | 0,6 |
| Brick N° 8 | 2,5 | 1,5 | 2,5 | 0,6 | 1,2 | 0,9 |
| Partial safety factor γ_M | 2,5 ²⁾ | | | 2,5 ²⁾ | | |

- ¹⁾ for design according to ETAG 029, Annex C:
for all masonry units: $N_{Rk} = N_{Rk,d} = N_{Rk,b} = N_{Rk,db} = N_{Rk,s}$
for perforated or hollow masonry units: $V_{Rk} = V_{Rk,b} = V_{Rk,c} = V_{Rk,s}$
for solid masonry units: $V_{Rk} = V_{Rk,b} = V_{Rk,s}$ and
 $V_{Rk,c}$ have to be calculated according to ETAG 029, Annex C
- ²⁾ in absence of other national regulations

Table 8: Characteristic bending moments

| Anchor rod | M8 | M10 | M12 |
|--|--------------------|-----|-----|
| Characteristic bending moment $M_{Rk,s}$ [Nm] (steel, strength class 5.8) | 19 | 37 | 65 |
| Partial safety factor γ_{Msv} | 1,25 ¹⁾ | | |

- ¹⁾ in absence of other national regulations

Table 9: Displacements under tension and shear load

| Base material | F [kN] | δ_{N0} [mm] | $\delta_{N\infty}$ [mm] | δ_{V0} [mm] | $\delta_{V\infty}$ [mm] |
|------------------------------|---------------------------------|--------------------|-------------------------|--------------------|-------------------------|
| Solid bricks | $N_{Rk} / (1,4 \cdot \gamma_M)$ | 0,6 | 1,2 | 1,0 ¹⁾ | 1,5 ¹⁾ |
| Perforated and hollow bricks | | 0,14 | 0,28 | 1,0 ¹⁾ | 1,5 ¹⁾ |

- ¹⁾ the hole gap between bolt and fixture shall be considered additionally

Table 10: β - factors for job site tests according to ETAG 029, Annex B

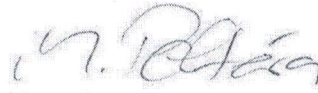
| Brick N° | N° 1 | N° 2 | N° 3 | N° 4 | N° 5 | N° 6 | N° 7 | N° 8 |
|------------------|------|------|------|------|------|------|------|------|
| β - factor | 0,62 | 0,22 | 0,48 | 0,26 | 0,43 | 0,42 | 0,36 | 0,60 |

According to ETAG 029, 2010

10. Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:



Marco Poltera
Corporate Product Engineer



Paul Schelbert
Material Group Manager Trading Products

Zuerich, 28 February 2013

Ecology, Health and Safety Information (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

Legal note:

This information is given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

For Further Information:
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