

DECLARATION OF PERFORMANCE

HALFEN MVA Sleeve Sandwich Panel Anchor
HALFEN FA Flat Anchor

CONF-DOP_FA-MVA 06/15-E

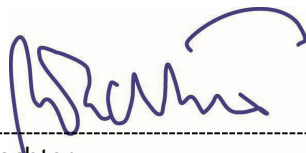
Nr. H57-1090 1/1

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| 1. | Unique identification code of the product-type | HALFEN Sleeve Sandwich Panel Anchor MVA, HALFEN Flat Anchor FA |
| 2. | Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4) | Identifying mark of the producer: HALFEN or H Type code and Product type: see stamping |
| 3. | Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: | |
| | Generic type and use | Connecting anchor between facing and load bearing layer of a three- or four-layer precast façade element. |
| | Product size covered | MVA: 51/ 76/ 102/ 127/ 153/ 178/ 204/ 229/ 255/ 280 FA-1: 40/ 80/ 120/ 160/ 200/ 240/ 280/ 320/ 360/ 400 FA-2: 40/ 80/ 120/ 160/ 200/ 240/ 280/ 320/ 360/ 400 FA-3: 40/ 80/ 120/ 160/ 200/ 240/ 280/ 320/ 360/ 400 |
| | For use in | Concrete \geq C30/37 according to EN 206 |
| | Material and scope of application | See German national approval Z-21.8-1979 |
| | Loading | Static and quasi static loads |
| 4. | Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5) | HALFEN GmbH, Liebigstraße 14, 40764 Langenfeld, Germany |
| 5. | Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2) | Not applicable |
| 6. | System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V | System 2+ |
| 7. | In case of the declaration of performance concerning a construction product covered by a harmonised standard | The notified body NB-No. 2451 has performed in matters of factory production: <ul style="list-style-type: none"> initial inspection of the manufacturing plant and factory production control, continuous surveillance, assessment and evaluation of factory production control according to System 2+ and issued the following: <ul style="list-style-type: none"> Certificate 2451-CPR-EN1090-2015.0327.001 (Halfen Produkcja, Nowe Skalmierzyce, Poland) Certificate 2451-CPR-1090-2013.0316.002 (Halfen GmbH, Plant Artern, Germany). The notified body NB-No. 2499 has performed in matters of structural design work: <ul style="list-style-type: none"> inspection and evaluation of the relevant equipment, competence of personnel and resources, assessment of procedure for structural design including control procedures according to System 2+ and issued the following: <ul style="list-style-type: none"> Certificate of conformity 2499-CPR-0113070-00-02 (Plant Langenfeld, Germany). |
| 8. | In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued | Not applicable, see point 7 |

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| 9. | Declared performance | | Harmonized Technical Specification EN 1090-1:2009+A1:2011 |
| | Essential Characteristics | Performance | |
| | Tolerances on dimensions | According to the component specification and EN 1090-2 | |
| | Weldability | NPD | |
| | Fracture toughness | NPD | |
| | Reaction to fire | Euroclass A1 according to EN 13501-1 | |
| | Release of cadmium and its compounds | NPD | |
| | Emission of radioactivity | NPD | |
| | Durability | Stainless steel according to point 3. | |
| | Load bearing capacity | Design acc. to DIN 18800-1: 2008 + Z-30.3-6: 2014, see German national approval Z-21.8-1979 | |
| | Fatigue strength | NPD | |
| | Resistance to fire | NPD | |
| | Manufacturing | According to the component specification and EN 1090-2, execution class EXC2; welding acc. to DIN 18800-7: 2008-11 | |
| | Where pursuant to Article 37 or 38 in the Specific Technical Documentation has been used, the requirements with which the product complies | Not applicable | |
| 10. | 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. | | | |

Langenfeld, 19.06.2015

Signed for and on behalf of the manufacturer by



 Richard Wachter
 (Managing Director)



 ppa. Dr.-Ing. Dirk Albartus
 (Manager Engineering)