

EN

## DECLARATION OF PERFORMANCE

according to Annex III of the Regulation (EU) Nr. 305/2011 (Construction Products Regulation)

Hilti S-IT fasteners and S-IW load plates  
for systems of mechanically fastened flexible roof waterproofing membrane  
No. Hilti-SF-DoP-007

**1. Unique identification code of the product-type:** Hilti S-IT fasteners and S-IW load plates for systems of mechanically fastened flexible roof waterproofing membrane

**2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):** Type and Lot-Number displayed on the packaging

**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 | Fastening for systems of mechanically fastened flexible roof waterproofing membrane on steel |
| Product size covered | Screw diameter 4.8, 6.3; Load plate diameter 40, 64x64, 40x40, 80x40                         |
| Base material        | Steel according to EN 10346  |
| Fastener material    | Screws: coated galvanized carbon steel Load plates: galvanized steel                         |
| Loading              | Static & quasi static (wind loading)   |

**4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):** Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein

**5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):** n.a.

**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 harmonized standard:** n.a.

**8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:** ETA-Danmark A/S issued ETA-17/0346 on the basis of ETAG 006-2012. The notified body Karlsruher Institut für Technologie (KIT) 0769 performed third party tasks under system 2+ and issued the certificate of conformity of the production control 0769-CPR-VAS-00682.

**9. Declared performance:**

| Essential characteristics               | Performance data               | Harmonized technical specification |
|---|--------------------------------|------------------------------------|
| Characteristic axial loading resistance | Annex 1; ETA-17/0346, Annex B1 | ETA-17/0346<br>ETAG 006-2012       |
| Corrosion class                         | Annex 2; ETA-17/0346, Annex B3 |                                    |
| Resistance to unwinding                 | Annex 3; ETA-17/0346, Annex B3 |                                    |
| Mechanical resistance/brittleness       | Annex 4; ETA-17/0346, Annex B4 |                                    |

**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.**

Signed for and on behalf of the manufacturer by:

**Lars Taenzer**  
Head of Business Unit Direct Fastening

**Pierre Hohmeier**  
Head of Quality Screw Fastening

**Annex 1:**
**ETA-17/0346, Annex B1**

English translation prepared by ETA-Danmark

| Fastener   | Thickness of support t [mm] | Characteristic axial loading resistance N <sub>Rk</sub> [N] | Substrate                    |
|--|-----------------------------|---|------------------------------|
| <b>Profiled metal decking substrate (standard)</b> |                             |   |                              |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 40                    | 0.75                        | 1370  | Steel,<br>S320GD<br>EN 10346 |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 40x40                 | 0.75                        | 1370  |                              |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 64x64                 | 0.75                        | 1370  |                              |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 80x40                 | 0.75                        | 1370  |                              |
| <b>Profiled metal decking substrate (acoustic)</b> |                             |   |                              |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 40                    | 0.75                        | 1680  | Steel<br>S320GD<br>EN 10346  |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 40x40                 | 0.75                        | 1680  |                              |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 64x64                 | 0.75                        | 1680  |                              |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 80x40                 | 0.75                        | 1680  |                              |

**Annex 2:**
**ETA-17/0346, Annex B3**

English translation prepared by ETA-Danmark

| Fastener                           | Corrosion class <sup>1)</sup> |
|------------------------------------|-------------------------------|
| S-IT 01C 4.8xL + S-IW 4.9 AZ 40    | C15                           |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 40x40 | C15                           |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 64x64 | C15                           |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 80x40 | C15                           |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 40    | C15                           |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 40x40 | C15                           |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 64x64 | C15                           |
| S-IT 01C 6.3xL + S-IW 6.6AZ 80x40  | C15                           |

- <sup>1)</sup> class C2 = surface corrosion = 0 % after 2 cycles  
 class C7 = surface corrosion ≤ 5 % after 7 cycles  
 class C15 = surface corrosion ≤ 15 % after 15 cycles

**Annex 3:**
**ETA-17/0346, Annex B3**

English translation prepared by ETA-Danmark

The fasteners are assessed as resistant to:

- rotation of the fastener head ≤ ¼ turn after 500 cycles
- rotation of the fastener head ≤ ½ turn after 900 cycles
- vertical movement ≤ 1mm after 900 cycles

**Annex 4:**
**ETA-17/0346, Annex B4**

English translation prepared by ETA-Danmark

| Fastener                           | Mechanical resistance<br>before and after heat ageing:<br>drop height [m] <sup>1)</sup> |
|------------------------------------|---|
| S-IT 01C 4.8xL + S-IW 4.9 AZ 40    | not relevant  |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 40x40 | not relevant  |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 64x64 | not relevant  |
| S-IT 01C 4.8xL + S-IW 4.9 AZ 80x40 | not relevant  |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 40    | not relevant  |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 40x40 | not relevant  |
| S-IT 01C 6.3xL + S-IW 6.6 AZ 64x64 | not relevant  |
| S-IT 01C 6.3xL + S-IW 6.6AZ 80x40  | not relevant  |

<sup>1)</sup> Heat ageing of the plastic part of the fastener for 28 days at 80 °C ± 2 °C.  
Drop height ≥ 1.0 m is checked.