

DECLARATION OF PERFORMANCE

by analogy with Annex III to Regulation (EU) No 305/201

EFCO CLIC Radiation Cable Clamp SKH, Use in railway tunnels for high-speed traffic

Nr.: EfcO – SKH - DOP edit 03-2025

1. Unique identification code of the product-type:	EFCO CLIC SKH
2. Type, batch or serial number or other mark identifying the product in accordance with Article 10(6)	<p>Item number – designation</p> <p>A 88.470/A88570 - CLIC SKH ½ "</p> <p>A 88.471/A88571 - CLIC SKH ⅞ "</p> <p>A 88.472/A88572 - CLIC SKH 1 ¼ "</p> <p>A 88.473/A88573 - CLIC SKH 1 ⅝ "</p> <p>Batch number indicated on the packaging</p>
3. Intended use/es:	<p>Mechanical fastener for spacing radiator cables (mobile and object radio) from the surface in areas that are not exposed to permanent UV radiation (such as tunnels, building interiors).</p> <p>No harmonised standards applicable</p>
4. The name, registered trade name or registered trade mark and contact address of the manufacturer in accordance with Article 11(5):	EFCO Befestigungstechnik AG, Grabenstrasse 1, CH-8606 Nänikon, Schweiz
5. Authorised representative:	not applicable
6. system for the assessment and verification of constancy of performance of the device in accordance with Annex V.	System 4
7. Regulations, directives and reports on which the declaration of performance is based	<p>Deutsche Bahn, "Railway tunnel design, construction and maintenance. Aerodynamic effects", Guideline 853.2001A01, Update 9, 01.09.2018.</p> <p>European Commission, "Regulation 1302/2014 concerning a technical specification on the interoperability of the rolling stock - locomotives and passenger rolling stock subsystem of the rail system within the European Union"; TSI LOC PAS; 18.11.2014.</p> <p>Aerodynamic loading of a radiating cable support in railway tunnels during high speed traffic; Report 21-002-001, HBI Haerter 3007 Bern, Switzerland; 2021-06-03</p> <p>Fire resistance rating DIN1363-1:2012-10 (ISO834-1:1999)</p>

8. The technical verification on which the declaration of performance is based

Test report: TB21-04382-01-00; Qualitech AG, accredited test centre; 8404 Winterthur Switzerland, 2021-08-26

Test reports: 185/18, 222/18: Bautechnische Versuchsanstalt; 6830 Rankweil Austria

Test report Nr. PB 3.2/17-394-1 MFPA Leipzig GmbH

Test report Nr. PB 9/2024 Verification Test EFCO Befestigungstechnik AG

9. Performance declared

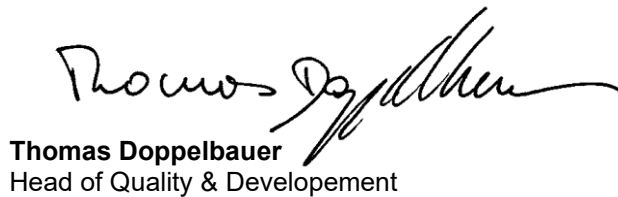
Essential characteristics	Performance declared	Remark
Static load	> 300 N	(20°C ambient temperature, safety factor 3)
Fatigue resistance	> 2.6 mio load changes	Max. Load case with 76N/m cable length, at v= 330 km/h traction speed. Cableclamp and cable are laid crosswise to the direction of travel. Distance between fastenings 1m. Tunnel cross-section ≥ 41m ²
Dimensionally stable temperature (210h)	> 80°C	Load 30N
Fire resistance rating	>45min 100N load >75min 50N load	valid for the fire safety band (material AISI 316; 1.4401/4)

Signed for and on behalf of the manufacturer by:



Andreas Gschwind
General Manager

Nänikon, 02.03.2025



Thomas Doppelbauer
Head of Quality & Development