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 02-2022

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)	Item number – designation A 88.470 - CLIC SKH ½ " A 88.471 - CLIC SKH ⅞ " A 88.472 - CLIC SKH 1 ¼ " A 88.473 - CLIC SKH 1 ⅝ " Batch number indicated on the packaging
3. Intended use/es:	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). No harmonised standards applicable
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	Deutsche Bahn, "Railway tunnel design, construction and maintenance. Aerodynamic effects", Guideline 853.2001A01, Update 9, 01.09.2018. 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. 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
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

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. Cable is laid crosswise to the direction of travel. Distance between fastenings 1m. Tunnel cross-section ≥ 41m²
Dimensionally stable temperature (210h)	> 80°C	Load 30N

Signed for and on behalf of the manufacturer by:

Andreas Gschwind
General Manager

Nänikon, 07.02.2022

Thomas Doppelbauer
Head of Quality & Developement