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Certificate No: LR2435310TA-02 Issue Date: 22/07/2025 Expiry Date: 17/01/2029

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Hilti Corporation
Address	Feldkircherstrasse 100, 9494 Schaan, Liechtenstein
Place of Production	Daepac Industries Sdn. Bhd. (415215-U)
	No. 10, Jalan Gemilang 5, Taman Perindustrian Gemilang, Ulu Tiram, Johor, 81800, Malaysia
Place of Production	Hilti Corporation
	Feldkircherstrasse 100, 9494 Schaan, Liechtenstein
Place of Production	WP-Wörgartner Produktions-GmbH
	Bahnhofstrasse 21, Oberndorf / Tirol, 6372, Austria
Place of Production	Ningbo World Broad Hardware & Electrical Co. Ltd.
	No. 139 Xinyang Road, Ditang Town, Yuyao City, Ningbo City, Zhejiang, 315491, China
Туре	Building Construction Elements
Description	New Generation Hilti X-BT-GR, X-BT-MR, X-BT-ER Threaded Fastener, X-FCM-R & X-FCS-R Grating Fastener.
Trade Name	Hilti X-BT Direct Mechanical System

Jenny Wilson

Engineering - Machinery Principal Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Application Marine, Offshore & Industrial

Specified Standard New generation Hilti X-BT-GR, X-BT-MR and X-BT-ER Threaded Fastener

Specification & Hilti X-BT-ER Data sheet & Hilti Direct Fastening Technology

Manual for Grating Fasteners; EUROCODE 3

Ratings See Appendix

Other Conditions This Type Approval certificate is to be read in conjunction with submitted

Technical Report on the supplementary design documents.

The minimum strength of the base material is to be as stated in the Hilti X-BT-

GR, X-BT-MR and X-BT-ER Threaded Fastener Specification.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2435310TA

The Design Appraisal Document LR2435310TA-02 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Expiry Date: 16th January 2029 Reference: GTSO/GED/MCH/JW/TSO/25-036667

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2435310TA-02

Appendix

		X-BT-GR	X-BT-MR	X-BT-ER
Size		M8/7 SN8	M10/15 SN8	M10/7 SN8
			W10/15 SN8	W10/7 SN8
			M8/14 SN8	M8/7 SN8
			M6/10 SN8	M6/3 SN8
			W6/10 SN8	W6/3 SN8
Material	Shank & thread	S31803		S31803
	SN washer	S3	1635	S31635
	Sealing washer	Elastomer		Elastomer
	Guide sleeve	Plastic		Plastic
	Nuts & washers	A4/AISI grade 316		A4/AISI grade 316
Purpose		Grating	Multi-purpose	Electrical Connection

Adapter types for X-BT-ER Fasteners

Adapter	Material
M8-MR 50	Stainless Steel, (X5CrNiMo17-12-2), 1.4401-AISI 316
M8-MR 75	OR
M8-MR 100	Copper Alloy, tin coated, CuSn8
M10-MR 50	Stainless Steel, (X5CrNiMo17-12-2), 1.4401-AISI 316
M10-MR 75	OR
M10-MR 100	Copper Alloy, tin coated, CuSn8
W10-MR 50	
W10-MR 75	

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