Certificate No: LR26286182WC
Issue Date: 01/01/2026
Expiry Date: 31/12/2026

CERTIFICATE OF APPROVAL OF WELDING CONSUMABLE FOR SHIP CONSTRUCTION

This certificate is issued to the company named below. The welding consumable or combination described has been tested in accordance with the requirements of Lloyd's Register for use in ship construction. This approval is subject to annual tests being carried out in accordance with the requirements of Lloyd's Register. The continued validity of this approval will be confirmed by appropriately dated Annual Reapproval Certificates issued to the company.

Company	**Tien Tai Electrode Co., Ltd., BU3 (3rd Factory)**
Address	No.8, Fuqiang Road, ., Guantian District, Tainan City, 720, Taiwan
Type of welding consumable	Section 5 - Flux-Cored Wire/Gas Shield
Trade name	TWE-711/CO2
Welding Process	Flux Cored Arc Welding
Grade & Technique	3YS
Welding Positions	Downhand, horizontal-vertical, vertical upward and downward, and overhead.
Weld Type	Butt and Fillet Welding.
Diameter (mm)	1.2 - 1.6
Current	DC(+)
Remarks	Approved also for automatic multirun welding in the downhand position only. Approved low hydrogen consumable, conforming to standard H5.

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Sufair Shaikh

Welding Team - 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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CERTIFICATE OF APPROVAL OF WELDING CONSUMABLE FOR SHIP CONSTRUCTION

Consumable 2nd Grade

Type of welding consumable	Section 5 - Flux-Cored Wire/Gas Shield
Trade name	TWE-711/CO2
Welding Process	Flux Cored Arc Welding
Grade & Technique	3YM
Welding Positions	Downhand, horizontal-vertical and vertical upward only.
Weld Type	Butt and Fillet Welding.
Diameter (mm)	1.2 - 1.6
Current	DC(+)
Remarks	Approved low hydrogen consumable, conforming to standard H5.

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