

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.

Name of Company: KOBELCO WELDING OF EUROPE B.V., NETHERLANDS

Type of Welding Consumable: Section 5 - Flux-Cored Wire/Gas Shield

Trade Name: DW-A51B/80%Ar-20%CO₂

Welding Position: Downhand and horizontal-vertical only.

Joint Type: Butt and Fillet Welding.

Grade: 3Y, suitable for welding steel Grade(s) EH36, EH32, EH27S, E (and any

corresponding strength grade(s) of lower toughness), using semi-

automatic flux cored arc welding. (Approved also for automatic multirun

welding in the downhand position only.)

Remarks: Approved low hydrogen consumable, conforming to standard H5.

Approved for wires of 1.2 - 1.6 mm diameter only.

Date: 25 S

25 September 2009

Valid until:

25 September 2010

Shane Downie

Surveyor to Lloyd's Register EMEA

On behalf of Lloyd's Register Group