



CERTIFICATE NUMBER

DATE

06-HG136092-PDA

19 January 2006

ABS TECHNICAL OFFICE

Hamburg Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
ACO Industries k. s.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Steel Pipe System

MODEL: GM

ABS RULE: 2006 Steel Vessel Rules, 1-1-4/7.7, 4-6-1/3.7/3.11/5, 4-6-1/Tables 1/ 2, 4-6-2/3.1.1/9.7.2/9.7.4.

OTHER STANDARD: DIN 2394, DIN 2413, DIN 86280, DIN 86287, DIN 86288, EN 1123, EN 1124, DIN EN ISO 15749.; IMO Resolution A.754 (18), Brandversuchshaus Hamburg Fire Test Reports No. GH00.17.1, GH00.18.1, GV00.20.1, GV00.21.1 & GH00.27.1, DIN EN ISO 9001.;

AMERICAN BUREAU OF SHIPPING

Hartmut Grommel

Engineering Type Approval Co-ordinator