



ABS

TYPE APPROVAL PROGRAM

CERTIFICATE NUMBER: ST802545-X1

PLANT LOCATION: NANTONG, JIANGSU, PRC

POST OFFICE: SHANGHAI, PRC

CERTIFICATE OF Manufacturing Assessment

This is to Certify that a representative of this Bureau did, at the request of
NANTONG MINCON COMPOSITE MATERIALS CO., LTD.

attend their facilities on the date and location stated, in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing a product which meets the designated standards. The product listed on the Attachment is eligible to be placed on this Bureau's *List of Type Approved Products*, subject to annual facility surveys by a representative of this Bureau and renewal of this Certificate after five (5) years.

PRODUCT DESCRIPTION: FIBERGLASS REINFORCED PLASTIC (FRP) GRATING.

ISSUE DATE: 20 NOV. 2002

EXPIRES: 20 NOV. 2007

SURVEYOR'S SIGNATURE

B. XUE



FIRST ANNUAL ENDORSEMENT

SECOND ANNUAL ENDORSEMENT

THIRD ANNUAL ENDORSEMENT

FOURTH ANNUAL ENDORSEMENT

NOTE: This certificate evidences compliance with one or more of the Rules, Codes, Standards or other Acts of American Bureau of Shipping in a factory, subject to its manufacturer's standard and is good only for the use of the Bureau in connection with its own or other authorized entities. This certificate is governed by the terms and conditions on the reverse side hereof.

TX1021 146-C1AC00
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CERTIFICATE NUMBER
07-SQ111854-PDA

DATE
9 August 2002

ABS TECHNICAL OFFICE
Shanghai

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Nantong Mincom Composite Materials Co., Ltd.

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; and 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).

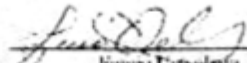
PRODUCT: Fiberglass Reinforced Plastic (FRP) Grating

MODEL: MINCOM-IFR & MINCOM-VHER

ABS RULE: N/A

OTHER STANDARDS: ASTM E 84-00a

AMERICAN BUREAU OF SHIPPING


Fumio Utsunomia
Principal Engineering Specialist Hull