



CERTIFICATE NUMBER

DATE

00-HS124117B-1-PDA

05 November 2010

ABS TECHNICAL OFFICE

Houston Materials

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**ENECON CORPORATION - MEDFORD**

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 as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Ceramic-Like Composites  
MODEL: METALCLAD CeramAlloy CP+ and METALCLAD CeramAlloy CL+  
ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3  
OTHER STANDARD: ASTM D-115, D-150, D-256, D-257, D-695, D-785, D-790, D-1002, D-2240.; Manufacturer's Product Sheets (Oct. 2010);

AMERICAN BUREAU OF SHIPPING

Tim Kimble

Engineering Type Approval Co-ordinator

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).



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PRODUCT: Elastomer-Like Composite  
MODEL: FLEXICLAD DuraTough DP and FLEXICLAD DuraTough DL  
ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7 & 1-1-Appendix 3  
OTHER STANDARD: ASTM D-1002, D-1876, D-2240, G-32.; Manufacturer's Product Sheets (Feb & Oct. 2010);

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PRODUCT: Metal-Hard Composites

MODEL: METALCLAD DurAlloy

ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7 & 1-1-Appendix 3

OTHER STANDARD: ASTM D-150, D-256, D-257, D-695, D-790, D-1002, D-2240.; Manufacturer's Product Sheet (Oct. 2010);

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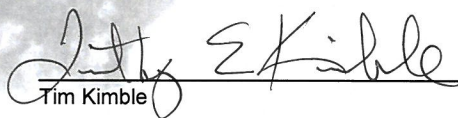
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PRODUCT: Metal-Hard Composites  
MODEL: METALCLAD SpeedAlloy  
ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7 & 1-1-Appendix 3  
OTHER STANDARD: ASTM D-150, D-256, D-257, D-695, D-785, D-790, D-1002, D-2240.; Manufacturer's Product Sheet (Jan. 2009);

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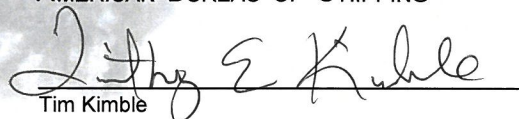
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PRODUCT: Repair, Concrete Repair Compound  
MODEL: ENECRETE DuraQuartz  
ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7 & 1-1-Appendix 3  
OTHER STANDARD: ASTM C-109, D-149, D-150, D-256, D-257, D-696, D-790, D-1002, D- 2240.; Manufacturer's Product Sheet (April 2008);

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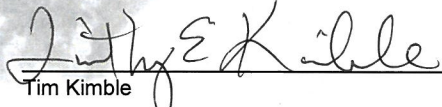
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PRODUCT: Coating, Corrosion Resistant Coating Compounds  
MODEL: CHEMCLAD SC and CHEMCLAD XC  
ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7 & 1-1-Appendix 3  
OTHER STANDARD: ASTM D-1002.; Manufacturer's Product Sheets (Feb. 2010);

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