

**CERTIFICATE**  
FOR HATCH COVER - WEATHER TIGHTCertificate No:  
**N141G9W3****This is to certify**

that the product: **28 x Oil Tight Cargo Hatch**

Type designation: \_\_\_\_\_

Application/context: **Cargo hatch**

Serial/tag no: **Please see below**

Has been found to comply with relevant requirements in:  
**DNVGL-RU-SHIP :DNV GL Rules for classification – Ships, (2016-01)**  
**DNV GL Rules for classification – Offshore units (2014-10)**

The product is intended for

Yard: \_\_\_\_\_

Yard No: **11-1120**

Name of vessel: **CULZEAN FSO**

DNV GL Id No: **35703**

**The product / material has been marked: N141G9W3 on: Hatch Body****Particulars of Vendor and Purchaser**

Vendor: \_\_\_\_\_

Vendor reference: \_\_\_\_\_

Purchaser: **Sembcorp Marine Ltd.**

Purchaser reference: **TS-S-262-01**

Issued at **Kuala Lumpur Verification** on **2017-11-06**for **DNV GL**This document has been digitally signed and  
will therefore not have handwritten signatures**Abu Bakar, Mohammad Azmir Zahir**  
**Surveyor**

Certificate No: **N141G9W3**

**Linked Plan Approvals:**

MOASG271/SMAK/D35703-J-8791, DNV GL Singapore Pte. Ltd., issued 2017-07-19

**Product parameters:**

Parameter name	Value	Unit
Area	910	m <sup>2</sup>

**Serial/Tag no:**

GB-CZV-0000AAD7116 GB-CZV-0000AAD7117 GB-CZV-0000AAD7118 GB-CZV-0000AAD7119 GB-CZV-0000AAD7120 GB-CZV-0000AAD7121 GB-CZV-0000AAD7122 GB-CZV-0000AAD7123 GB-CZV-0000AAD7124 GB-CZV-0000AAD7125 GB-CZV-0000AAD7126 GB-CZV-0000AAD7127 GB-CZV-0000AAD7128 GB-CZV-0000AAD7129 GB-CZV-0000AAD7130 GB-CZV-0000AAD7131 GB-CZV-0000AAD7132 GB-CZV-0000AAD7133 GB-CZV-0000AAD7134 GB-CZV-0000AAD7135 GB-CZV-0000AAD7136 GB-CZV-0000AAD7137 GB-CZV-0000AAD7138 GB-CZV-0000AAD7139 GB-CZV-0000AAD7140 GB-CZV-0000AAD7141 GB-CZV-0000AAD7142 GB-CZV-0000AAD7143

**Remarks:**

ID	Title	Description
N141G9W3:1	Approval basis and scope	<p>Design of cargo hatch covers has been reviewed for compliance with DNV Ship Rules Pt. 3 Ch.3 Sec.6 July 2015.</p> <p>This approval is based on industry standard JIS 2320:2003 "Ships' Oiltight Hatch Covers". Hatch cover parts/components and their dimensions, material specifications and welding shall be as mentioned in this standard or shall be equivalent.</p> <p>Each hatch cover shall be marked as required by Proposal to Owner CZV-000-MA-RE-1011.</p> <p>In addition to tests mentioned in this document, each hatch cover shall be function tested after installation onboard.</p> <p>It is understood that these hatch covers are used to cover access hatches for inspection of cargo tanks as shown in Drg. No. CZV-000-HS-LA-1061-01. It is assumed that these hatches are not emergency escape hatches. If this assumption is not correct, additional requirements in Ship Rules Pt.3 Ch.3 Sec.6 B400 shall be complied.</p> <p>It is assumed that these hatches are not immersed by an equilibrium or an intermediate water plane in damaged condition. If this assumption is not correct, hydrostatic pressure test is to be carried out as per Ship Rules Pt.3 Ch.3 Sec.6 A504.</p> <p>This approval is vessel specific and intended only for DNV GL vessel Id 35703 for afore-mentioned location and purpose.</p>