



Certificate No:
TAS0000336

TYPE APPROVAL CERTIFICATE

This is to certify:

That the **Lifting set component for offshore containers and portable offshore units**

with type designation(s)
Grade 8 short link smooth weld chain - C8Axxx SLS

Issued to
SCAW SA (PTY) Ltd –Chain Division
Cape Town, South Africa

is found to comply with
DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, January 2021
DNV GL standard DNVGL-ST-E273 – 2.7-3 Portable offshore units, December 2016
ISO 10855-2:2018 Offshore containers and associated liftings sets – Part 2: Design, manufacture and testing of lifting sets
IMO/MSC Circular 860
EN 818-2 Short link chain for lifting purposes – Safety – Part 2: Medium tolerance chain for chain for chain slings – Grade 8

Application :

Grade 8 chain for lifting sets for offshore containers and portable offshore units

Issued at **Aberdeen** on **2021-07-01**

This Certificate is valid until **2026-06-30** .

for **DNV**

DNV local unit: **Rotterdam**

Approval Engineer: **Elisabeth Legg**

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Brendan Ward
Delivery Lead - Containers

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 281

Revision: 2021-03

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Product description

This type approval certificate replaces TAS000013Y.

This approval covers chain for use in lifting sets for units certified in accordance with DNVGL-ST-E271 or DNVGL-ST-E273.

Detailed product information of the range of certified products covered by this type approval are listed in Appendix 1 of this type approval certificate.

Application/Limitation

Selection of the correct dimensions of lifting sets and/or lifting set components shall be carried out in accordance with the requirements for lifting sets of offshore containers in DNVGL-ST-E271 section 8.

Tests to be carried out:

- Production testing: in accordance with DNVGL-ST-E271 and EN 818-2, in agreement with the DNV surveyor.
- Material to be impact tested by Charpy impact method in accordance with DNVGL-ST-E271 section 8.4.

The manufacturer shall issue product certificates in accordance with DNVGL-ST-E271 section 8.5, using the certificate Form GEN-TST-001-F-03-01. This certificate form shall only be used for links certified in accordance with this type approval.

For chain manufactured in accordance with DNVGL-ST-E271

The required Working Load Limit (WLL) for a given container rating should be determined in accordance with DNVGL-ST-E271 Table 8-1 and Scaw procedure. In no case should an offshore container lifting set WLL be less than 7.0 tonnes.

For chain manufactured in accordance with DNVGL-ST-E273

Prior to selection of chain, the minimum required working load limit (WLL) shall be determined in accordance with the strength requirements for lifting sets on portable offshore units as given in DNVGL-ST-E273 section 7.3.5 and must be approved by DNV. Resultant sling force (RSF) can be found in the design verification report (DVR) issued by DNV for the portable offshore unit.

Type Approval documentation

Tests carried out

Prototype testing shall be carried out in accordance with DNVGL-ST-E271.

Marking of product

Components shall be marked in accordance with EN 818-2 chapter 7, DNVGL-ST-E271 section 8 or DNVGL-ST-E273 section 7, as appropriate.

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out by a DNV surveyor every 12 months.

END OF CERTIFICATE

Appendix 1

Product description and details:

Chain:

Type	Diameter [mm]	Working Load Limit (WLL) [t]	Manufacturing Proof Force (MPF) [kN]	Minimum Breaking Force (BF) [kN]
C8A 060 SLS **	6.0	1.2	28.3	47
C8A 070 SLS **	7.0	1.6	39.0	62.8
C8A 080 SLS **	8.0	2.0	50.3	80.5
C8A 100 SLS ***	10.0	3.2	79.0	126
C8A 130 SLS ***	13.0	5.4	133	213
C8A 160 SLS	16.0	8.2	201	322

C8A 200 SLS	20.0	12.8	315	503
C8A 220 SLS	22.0	15.5	380	609
C8A 260 SLS	26.0	21.6	531	850
C8A 320 SLS	32.0	32.8	804	1290
C8A 360 SLS	36.0	41.5	1018	1630
C8A 400 SLS	40.0	51.2	1257	2011
C8A 450 SLS	45.0	64.8	1590	2545

**) This size is only to be used for portable offshore units.

***) This size can only be used for offshore container sling legs, not forerunner