

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cargo Securing Devices

with type designation(s)

Raised deck socket SR-1, Raised deck socket SR-1E, Raised deck socket SR-1P, Double raised socket SR-2, Double deck socket SR-2P, Double raised deck socket along SR-2#E##, Long. raised socket SR-3, Long. raised socket, Raised deck socket - Full SR-#FP

issued to

Cargo Care Solutions B.V.
Barendrecht, Netherlands

is found to comply with

DNV class programme DNV-CP-0068 – General – Certification of container securing devices

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Type	SWL, tension (kN)	SWL, shear (kN)	SWL, compr. (kN)
Raised deck socket SR-1	250	210	1100*/1250
Raised deck socket SR-1E	250	210	1250
Raised deck socket SR-1P	250	210	1100*/1250
Double raised socket SR-2	250	210	1100*/1250
Double deck socket SR-2P	250	210	1100*/1250
Double raised deck socket along SR-2#E##	250	210	1250
Long. raised socket SR-3	250	210	1100*/1250
Long. raised socket SR-3P	250	210	1100*/1250
Raised deck socket - Full SR-#FP	250	210	1000

Issued at **Hamburg** on **2024-01-25**

This Certificate is valid until **2029-01-24**.

for **DNV**

DNV local unit: **Netherlands CMC**

Approval Engineer: **Mark-Oliver Wobig**

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.



Product description

Raised deck socket SR-1, height (H) 110mm – 160 mm
 Raised deck socket SR-1E, height (H) 110mm – 160 mm, hole (E) 144-244mm, length (L) 180-280mm
 Raised deck socket SR-1P height (H) 70mm – 160 mm
 Double raised socket SR-2, height (H) 70mm – 160 mm ,CC=206-366mm, length (L) 363-526 mm
 Double deck socket SR-2P, height (H) 70mm – 160 mm
 Double raised deck socket along SR-2#E##, height (H) 70mm – 160 mm, length L1 124-264mm, length L2 124-264 mm
 Long. raised socket SR-3, height (H) 70mm – 160 mm
 Long. raised socket SR-3P, height (H) 70mm – 160 mm
 Raised deck socket – SR-2FP, height (H) 70mm – 200 mm
 Raised deck socket – SR-3FP, height (H) 70mm – 200 mm
 Raised deck socket – SR-4FP, height (H) 70mm – 200 mm

Application/Limitation

Load	Tension [kN]	Shear [kN]	Compression [kN]
Test Load	313	263	1375*/1563
Breaking Load	500	420	2000

‘*’ means wall thickness t=10 mm

Tests to be carried out:

- Production testing: At least 2% of the items delivered are to be selected and subjected to the test load.
- Material tests are to be included energy testing at -20°C, with the impact energy requirements acc. to DNV-CP-0068. The material shall be according to the approved drawings. Material certificates shall be 3.1 acc. to ISO 10474:2013.

Type Approval documentation

Drawing No.	Rev.	Title
SR-1	a	Raised deck socket
SR-1E		Raised deck socket
SR-1P		Raised deck socket
SR-2		Double deck socket
SR-2P		Double deck socket
SR-2E		Double raised deck socket along
SR-3		Long. Raised socket
SR-3P		Long. Raised socket
SR-#FP		Raised deck socket -Full

Drawing approval: Ref.No. 262.1-040581-1, dated 2023-11-30
 Type test report dated 2023-12-28

Tests carried out

The prototype test was carried out in Yixing, P.R. China, dated 2023-12-28 in accordance with the DNV-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

For retention of the Type Approval, a DNV surveyor shall perform a survey after 2 and 3.5 years, to verify that the Type Approval is complied with.