



TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000TA
Revision No:
1

This is to certify:

That the Flexible Mounts for Propulsion or Auxiliary Machinery

with type designation(s)
TSC size T1, T2, T3, T6, T7, T10, T15, T20 and Marine Genflex size B & HD

Issued to
Christie & Grey Limited
Kent, United Kingdom

is found to comply with
DNV rules for classification – Ships

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2023-12-11**

This Certificate is valid until **2028-12-10**.
DNV local unit: **Southampton**

Approval Engineer: **Andreas Wolf**



for **DNV**
Digitally Signed By: Drews, Olaf
Location: DNV GL SE Hamburg, Germany
Signing Date: 2023-12-11

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Olaf Drews
Head of Section

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

Model TSC: Combined Steel Spring and Rubber Spring Unit Isolators
 Model B & HD: Rubber Mountings

Application/Limitation

The isolators are approved for mounting of machinery including diesel engines.
 Size of isolators to be chosen according to the following data sheets:

T1	:	DS 004 Issue 12
T2	:	DS 005 Issue 17
T3	:	DS 006 Issue 18
T6	:	DS 119 Issue 2
T7	:	DS 120 Issue 2
T15	:	DS 108 Issue 5
T10, T20	:	DS 059 Issue 20
HD, B	:	DS 063 Issue 8

Type Approval documentation

TSC Combined Steel Spring and Rubber Unit Isolators, Sizes T1, T2, T3, T6, T7, T10, T15 & T20 and the following drawings, data sheets and brochures:

Size	Drawing	Data sheet	Brochure
T1	S 048 Issue E	DS 004 Issue 12	PL057/1-2 Rev.D
T2	S 071 sht. 1 of 3, Issue D	DS 005 Issue 17	PL057/1-2 Rev.D
T3	S 001 Issue M	DS 006 Issue 18	PL058/1-2 Rev.C
T6	S 241 Issue A	DS 119 Issue 2	N/A
T7	S 240 Issue A	DS 120 Issue 2	N/A
T15	S228 Issue B	DS 108 Issue 5	PL056/1-2 Rev.E
T10	S 090 Issue G	DS 059 Issue 20	PL059/1-2 Rev.C
T20	S 221 Issue A (adjustable stopper)	DS 059 Issue 20	PL061/1-2 Rev.C

Brochure PL002/2 August 2023 Rev.G Genflex Rubber Mountings, Sizes B & HD and the following drawings and data sheets:

Size	Drawing	Data sheet
B	S 139 Issue E	DS 063 Issue 8
HD	S 138 Issue G	DS 063 Issue 8

Test carried out

Isolator compression tests for B size 10.104.60, 10.104.70 and for HD size 10.103.60

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical Assessment

For retention of the Type Approval, a DNV surveyor shall perform an assessment after 2 years and after 3.5 years to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval Certificate was issued.

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, Periodical Assessment shall be carried out randomly at these companies.

Other conditions

No product certificate required.
 Installation, maintenance and inspection of the mounts to be done according to the makers instructions.

END OF CERTIFICATE