



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. M-11742

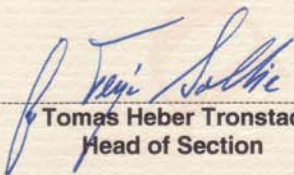
This is to certify that the  
**Flexible Mounts for Propulsion or Auxiliary Machinery**  
with type designation(s)  
**TSC size T1, T2, T3, T10 and Marine Genflex size B & HD**

Manufactured by  
**Christie & Grey Limited**  
**Kent, United Kingdom**

is found to comply with  
Det Norske Veritas' Rules for Classification of Ships/High Speed and Light Craft

Application  
**The TSC unit isolators are approved for mounting of machinery including diesel engines.**

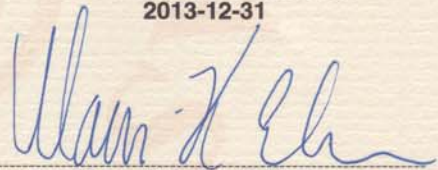
Høvik, 2011-06-16  
for Det Norske Veritas AS

  
Tomas Heber Tronstad  
Head of Section



DNV local office:  
London

This Certificate is valid until  
2013-12-31

  
Hans-Kristian Eriksen  
Surveyor

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.  
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Certificate No.: M-11742  
File No.: 702.60  
Job Id.: 262.1-000755-3

## 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 10  
T2 : DS 005 Issue 13  
T3 : DS 006 Issue 16  
T10 : DS 059 Issue 11  
B : DS 063 Issue 7  
HD : DS 063 Issue 7

## Type Approval documentation

Brochure PL001/1-4 – September 2009 Rev.G TSC Combined Steel Spring and Rubber Unit Isolators, Sizes T1, T2, T3 & T10 and the following drawings and data sheets :

Size	Drawing	Data sheet
T1	S 048 Issue D	DS 004 Issue 10
T2	S 071 sht. 1 of 3, Issue D	DS 005 Issue 13
T3	S 001 Issue M	DS 006 Issue 16
T10	S 090 Issue G	DS 059 Issue 11

Brochure PL002/1- 2 October 2009 Rev.D Genflex Rubber Mountings , Sizes B & HD and the following drawings and data sheets :

Size	Drawing	Data sheet
B	S 139 Issue D	DS 063 Issue 7
HD	S 138 Issue E	DS 063 Issue 7

## 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.

## Certificate retention survey

For retention of the Type Approval, DNV surveyor shall perform survey every second year and before expiry date of this certificate to verify that the conditions of the type approval is complied with.

## Other conditions

No product certificate required.

Installation, maintenance and inspection of the mounts to be done according to the makers instructions.

END OF CERTIFICATE