



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
BG24PTB00007

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

Seat Innovation AS

地址/Address

Buraasen 42, 4636 Kristiansand, Norway

产品名称/Product

高速船座椅
Seats of high speed craft

认可标准/Approval Standard

1. 经MSC. 222 (82) 修正的《国际高速船安全规则》(HSC) 2000第4章和附录10
Chapt 4 and Annex 10 of International Code of Safety for High-Speed Craft 2000 and as amended by MSC.222(82)

用于/Intended for

高速船舶/High speed ship



证书有效期至/ This Certificate is valid until 2026年06月18日/ Jun. 18, 2026

发证机构/ Issued by 中国船级社卑尔根办事处
CCS Bergen Office

签发日期/ Date 2024年05月29日
May. 29, 2024

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向本社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P024-47069652

产品明细/Product Description**高速船座椅/Seats of high speed craft (M0001)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	Alutech 220/230/240/250, Alutech 520/525/530/540/550, Alutech 620/625/630/640/650.	
材料/Material	Aluminium-profiles/plates and steel bolts/details	

高速船座椅/Seats of high speed craft (M0002)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	Bahama Liiftup; Bahama Std; Bahama HS; Bahama Diplomat; Bahama Edge; Bahama Extended; Bahama Turn up/Cinema	
材料/Material	Aluminium-profiles/plates and steel bolts/details	

高速船座椅/Seats of high speed craft (M0003)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	Senja HS ; Senja Crew; Senja HS Reclining; Senja High/Midi/Low	
材料/Material	Aluminium-profiles/plates and steel bolts/details	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP17A02938, BG18A00012, NP24PPP01395_1

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : KRS-08.4175
 试验报告日期/ Test Report Date : 2007-04-25
 试验单位/ Laboratory: Alu Design & Services AS
 试验单位地址/ Test Address: Kristiansand, Norway

试验报告编号/ Test Report No. : T0-09003742_1
 试验报告日期/ Test Report Date : 2009-04-15
 试验单位/ Laboratory: Autoliv Sverige AB
 试验单位地址/ Test Address: Vargarda, Sweden

试验报告编号/ Test Report No. : T0-09003742_2
 试验报告日期/ Test Report Date : 2009-04-16
 试验单位/ Laboratory: Autoliv Sverige AB
 试验单位地址/ Test Address: Vargarda, Sweden

试验报告编号/ Test Report No. : T0-10023118_2
 试验报告日期/ Test Report Date : 2011-01-04
 试验单位/ Laboratory: Autoliv Sverige AB
 试验单位地址/ Test Address: Vargarda, Sweden

试验报告编号/ Test Report No. : T0-10023118_1
 试验报告日期/ Test Report Date : 2011-01-04
 试验单位/ Laboratory: Autoliv Sverige AB
 试验单位地址/ Test Address: Vargarda, Sweden

试验报告编号/ Test Report No. : T0-16001562
试验报告日期/ Test Report Date : 2016-01-28
试验单位/ Laboratory: Autoliv Sverige AB,
试验单位地址/ Test Address: Vargarda, Sweden

试验报告编号/ Test Report No. : 56497
试验报告日期/ Test Report Date : 1997-06-04
试验单位/ Laboratory: Väg- och transportforskningsintitutet
试验单位地址/ Test Address: Linköping, Sweden

试验报告编号/ Test Report No. : 02-c234
试验报告日期/ Test Report Date : 2002-10-08
试验单位/ Laboratory: Autoliv Sverige AB
试验单位地址/ Test Address: Vårgårda Sweden

试验报告编号/ Test Report No. : KRS-06-0413
试验报告日期/ Test Report Date : 2006-04-08
试验单位/ Laboratory: DNV
试验单位地址/ Test Address: Kristiansand ,Norway

试验报告编号/ Test Report No. : T0-110038105_1
试验报告日期/ Test Report Date : 2011-03-22
试验单位/ Laboratory: Autoliv Sverige AB
试验单位地址/ Test Address: Vårgårda Sweden

试验报告编号/ Test Report No. : T0-12011156
试验报告日期/ Test Report Date : 2012-06-28
试验单位/ Laboratory: Autoliv Sverige AB
试验单位地址/ Test Address: Vårgårda Sweden

认可后的产品检验方式/ Method of Product Inspection after Approval

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验，经检验合格后由制造厂签发合格证明，并连同该产品的本社认可证书复印件一并交付用户，制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后，如果产品及其重要零部件的设计、所用材料或制造方法有所改变，且影响到产品的主要特性、特征；或产品的性能指标有所更改，且超过认可的范围，则有关图纸和文件应经检验机构审批。并在检验机构认为必要时，经本社检验人员见证有关试验和进行检查，其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行，并且与认可时一致。如果质量管理体系发生改变，应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内，如果出现可能导致本社取消认可的情况，工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

Refer to the additional pages.

中国船级社卑尔根办事处

CCS Bergen Office

注: 本证书含有附页, 共2页

Note: The certificate is attached with additional 2 page(s)

1. Application and Limitation

1.1 This certificate consists of seats including deck rails to be intended for high-speed craft, and the basic construction consists of Bottom/Back with upholstery, Column/Leg and deck-Base/Rails. Deck structure of craft, and restricted use of combustible materials according to HSC Code sec. 7.4.3 are not part of this approval.

1.2 The upholstery materials of the Chairs are not included in this certificate, which should have the fire test certificate proving the materials have complied with the relevant requirement of Annex 1, Part 8 of IMO 2010 FTP Code and Annex 7 of 2000 HSC Code.

1.3 The type of Alutech 200/500/600 series Chairs for Design level 2 as specified for collision acceleration (g_{coll}) from 3g to 12g, which are approved for the following conditions relative to the craft:

Forward facing placed on 1 leg/pillar fixed directly to deck or to rail with 3 or 4-point belt.

- Alutech 200 series 12g
- Alutech 500 series 12g
- Alutech 600 series 12g

Any Chair/Lap-belts are assumed separately approved according to the relevant standard.

1.4 The type of Senja Crew, Senja HS Reclining and Bahama Liftup are for Design Level 1 with g_{coll} up to 3g.

1.5 The type of Bahama Std/HS/Diploma/Edge/Extended and Senja High/Midi/Low/HS are for Design level 2 for the following conditions relative to the craft:

- Forward facing and g_{coll} up to 12g:
 - maximum 3 seats in a row when placed on 2 legs.
 - maximum 4 seats in a row when placed on 3 legs.
- Forward facing and g_{coll} up to 7g:
 - maximum 4 seats in a row when placed on 2 legs, and bolts of quality 10.9 are fitted.
- Forward facing and g_{coll} up to 9g:
 - maximum 3 seats in row when placed on 2 legs according to drawing no. MM-2011-1017 rev. 2, and lap belts are fitted.
- Rearwards facing and g_{coll} up to 9g:
 - maximum 3 seats in row when placed on 2 legs according to drawing No. 42873.
- Forward/aft/sideways facing and g_{coll} up to 3g:
 - "Senja HS recline", maximum 3 seats in a row when placed on 2 legs.

1.6 The approval cover the strength Seat and mounting with respect to collision only, The Alutech 200/500/600 series chairs can be mounted on the following rails:

- Alutech 3200/3300
- Alutech 3400/3500
- Alutech 4000/4100

1.7 Chair is to be mounted to deck as tested:

For the Alutech series: fixation by 6 off M10 bolts for Leg/Column, 18 off M6 bolts for rail-carriage and M6 bolts spaced 300mm (150mm in ends) for deck-Rails. Bolts are st. steel A4.

For the Senja and Bahama series: fixation by 4.8 mm stainless steel/monel rivets with 80 mm spacing, with an additional 6 rivets with 27 mm spacing at aft end of legs, reference made to drawings (Type 1).

1.8 The deck structure of craft is not part of this approval but is assumed approved separately.

2. 本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

3. 本证书由原型式认可证书（No. BG22PTB00008）变更并替代原证书。

This certificate is modified from and supersedes the previous Type Approval Certificate No. BG22PTB00008.