



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
SH21PTB00076

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

上海天俊救生设备有限公司  
Shanghai Tianjun Life-saving Equipment Co.,Ltd.

地址/Address

上海市浦东新区园中路451号8幢B区  
Block B Building 8 No.451 Yuanzhong Road, Pudong New Area, Shanghai, China

产品名称/Product

雷达反射器  
RADAR REFLECTORS  
雷达反射器—被动型  
Radar Reflector - Passive Type

认可标准/Approval Standard

1. 1974 年国际海上人命安全公约及其修正案第 III 章第 4、34 条  
Regulations 4 and 34, Chapter III of International Convention for the Safety of Life at Sea, 1974, as Amended.
2. ISO 8729: 2010 《船舶和海上技术——雷达反射器》  
ISO 8729:2010 Ships and Marine Technology -- Marine Radar Reflectors

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

雷达反射器—被动型/Radar Reflector – Passive Type (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	TJ-470I	
最小安装高度/Min. Mounting Height	2m	
雷达反射面积/Radar Echoing Section	7.5m <sup>2</sup> (≥280°, X波段)   7.5m <sup>2</sup> (≥280°, X band)	

雷达反射器—被动型/Radar Reflector – Passive Type (M0002)

名称/Name	属性(值)/Value	单位/Unit
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证书有效期至/This Certificate is valid until 2025年06月26日/ Jun. 26, 2025

发证机构/Issued by 中国船级社上海分社  
CCS Shanghai Branch

签发日期/Date 2021年05月21日  
May. 21, 2021

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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:P021-91470119

型号/Type	TJ-470II	
最小安装高度/Min. Mounting Height	2m	
雷达反射面积/Radar Echoing Section	7.5m <sup>2</sup> (≥280°, X波段)   7.5m <sup>2</sup> (≥280°, X band)	

**雷达反射器—被动型/Radar Reflector – Passive Type (M0003)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	TJ-560	
最小安装高度/Min. Mounting Height	2m	
雷达反射面积/Radar Echoing Section	7.5m <sup>2</sup> (≥280°, X波段)   7.5m <sup>2</sup> (≥280°, X band)	

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : SHA00420058 / SH13A00337 / SH09A00564

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : W13-S112

试验报告日期/ Test Report Date : 2013-04-08

试验单位/ Laboratory: 电子工业安全与电磁兼容检测中心 Safety and EMC Testing Center of Electronics Industry

试验单位地址/ Test Address: 北京市亦庄开发区同济南路8号 No.8 Tongjilu, Yizhuang Economic & Technological

试验报告编号/ Test Report No. : 2013-006-ZJ

试验报告日期/ Test Report Date : 2013-06-28

试验单位/ Laboratory: 上海天俊救生设备有限公司 Shanghai Tianjun Life-saving Equipment Co., Ltd.

试验单位地址/ Test Address: 上海市浦东新区唐陆路2313号 No.2313 Tanglu Road, Pudong New Area, Shanghai

试验报告编号/ Test Report No. : A13-016-WT

试验报告日期/ Test Report Date : 2013-04-10

试验单位/ Laboratory: 上海仪器仪表自控系统检验测试所 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems

试验单位地址/ Test Address: 中国上海漕宝路103号 103 Cao Bao Road, Shanghai China

试验报告编号/ Test Report No. : S186-GW-2013

试验报告日期/ Test Report Date : 2013-06-07

试验单位/ Laboratory: 中国船舶重工集团公司第七〇四研究所船舶环境工程与可靠性试验室 The Marine Environment Engineering and Reliability Laboratory of Number 704 Research Institute of China Shipbuilding Industry Corporation

试验单位地址/ Test Address: 上海市衡山路10号 No.10 Hengshan Road, Shanghai

**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

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.

本证书由原型式认可证书 (No. SH18T00105) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. SH18T00105.

**中国船级社上海分社**  
**CCS Shanghai Branch**