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CR Classification Society

Certificate No. 878-25-087

Date 27 July 2025

APPROVAL CERTIFICATE FOR

Firm Engaged in survey and maintenance of Lifeboats, Launching Appliances and On-Load Release Gears

This is to certify that

ASTRO FIRE & SAFETY PTE LTD

16T, Enterprise Road, Singapore, 627667

has been approved in compliance with the "GUIDELINES FOR APPROVAL OF SERVICE SUPPLIERS" issued by CR Classification Society (hereinafter referred to as "the Society"). Surveyors of the Society may rely on the services provided by this Firm to make decisions affecting classification or statutory certification and services.

This Certificate is valid until ***26 July 2028***

CHIEN-HUA HUANG

Chief Surveyor,
CR Classification Society

(See Appendix for further details regarding subsidiaries/agents/operators etc.)

SCAN TO VERIFY
UTN:878-25-087

This Certificate may be cancelled if:

1. The service was improperly carried out, or the results were improperly reported.
2. Deficiencies are found by the Surveyor in the approval service operating system of the service supplier, and appropriate corrective actions are not taken.
3. Alterations have been made to the company's quality system relevant to the service supplier certificates, without documented notification to the Society.
4. Renewal or Occasional Assessment is not carried out in time.
5. Wilful acts or omissions are ascertained.
6. Any deliberate misrepresentation has been made by the service supplier.

Please refer to the CR website for the latest status of this approval: www.crclass.org/aw0/aw0.htm

Appendix:

List of the recognitions granted by Lifeboats, Launching Appliances and On-Load Release Gears manufacturers

Equipment	Name of the manufacturer having authorized the service station	Type	Remarks, endorsements for addition / alteration
Lifeboats	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD.	Free Fall Lifeboat: JY-FN-4.9, JY-FF-4.9, JY-FN-5.8, JY-FF-5.8, JYM-FN-6.65, JYM-FF-6.65, JY-FN-6.8, JY-FF-6.8, JY-FN-7.5, JY-FF-7.5, JY-FN-8.5, JY-FF-8.5, JY-FN/FF-9.5.	
		Rescue Boat: GJ4.2, GJ4.25, GJ4.5, GJ5.0, GJ5.25, GJ6.0B-1, GJ6.10, GJ7.50, GJ8.0Q-2, GJ8.5Q-2.	
		Totally Enclosed Lifeboat: JY-QFP/N-5.0, JY-QFP/N-5.25, JY-QFP/N-5.6, JY-QFP/N-6.0A, JY-QFP/N-6.50, JY-QFP/N-7.0, JY-QFP/N-7.5, JY-QFP/N-7.50A, JY-QFP/N-8.00, JY-QFP/N-8.50, JY-QFP/N-8.50X, JY-QFP/N-9.35, JY-QFP/N-10.90A.	
	QINGDAO BEIHAI BOATBUILDING CO., LTD.	Totally Enclosed: BH-5,6,7,8,9,10 series, BH-E series.	
		Freefall: BH-F series.	
		Rescue: BH-R series, BH-HR series.	
	CSSC LUZHOU ZHENJIANG MARINE AUXILIARY MACHINERY CO., LTD.	Totally Enclosed Lifeboat: YH5.0QFP, YH5.0QFN, YH6.5QFP, YH6.5QFN, YH8.5QFP, YH8.5QFN, YH8.5QFP-A, YH8.5QFN-A, YH10.3QFP, YH10.3QFN, YH9.5QFP, YH9.5QFN, YH12.0QFP, YH12.0QFN, YH9.9BFP, YH12.5BFP, ZZHG-BF-12.5.	
		Free Fall Lifeboat: YH5.9FP, YH5.9FN, YH6.7FP, YH6.7FN, YH7.5FP, YH7.5FN, YH8.5FP, YH8.5FN.	
		Fast Rescue Boat: YH6.0FRA, YH6.0FRB, YH6.5FRA, YH6.5FRB.	
		Rescue Boat: YH4.5R, YH4.5DR, YH7.5.	

Launching Appliances	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD.	Gravity Luffing Arm Type Davit: JYL52, JYL55, JYL65, JYL68 JYL85, JYL105, JYL135.	
		Launching Appliance: JYF55, JYF75, JYF75-A, JYF75-B, JYF90.	
		Platform Davit: JYP65, JYP85, JYP105, JYP135.	
		Single Arm Davit: JYR21, JYR21S-A, JYRC21, JYR14, JYRH14, JYRH21, JYR26, JYR30, JYR23.	
		Electric Boat Winch: FW45, JYW42, JYW50, JYW70, JYW100, JYWP70, JYWP100, JYWP135, JYW35, JYRZ21.	
	QINGDAO BEIHAI BOATBUILDING CO., LTD.	Gravity Pivot: BD-PV series, BD-AR series.	
		Offshore: BD-PL series.	
		Single Arm: BD-SA series, BD-SH series, FA36, RBD966.	
		Freefall Launching: BD-FF series.	
		Winch: BW-H(L/R) series, L(L/R) series, SC series, YSB/INI/BJM hydraulic winch series.	
	CSSC LUZHOU ZHENJIANG MARINE AUXILIARY MACHINERY CO., LTD.	Gravity Davit: LE45-1, LE55-1, LE65-1, LE85-1, LE100-1, LE138-1, LE170-1, HE65, HE85, HE100, HE138, H170, RE50, RE60, RE80, RE100, SRH65, SRH85, SRH100, SRH120, SRH150, SRH170, SRH200, SRH230, GL65, GL85, GL110, GL138, GL165, TG65, TG85, TG110, TG150, TG170, TG200, TG230, HT80, HT100, HT150, HT210, LC400, RC60-EB.	
		Launching Appliance Davit: FH55, FH70, FH75, FH85, FH100.	
		Single Arm Davit and Crane: SAF14, SAF21, SAFC21, SAFC25, SA21, SA32, HDCL2-6.5, HDCL3-6, HDCL3-10, LA25, LA35, SH-21, DH30.	
		Off-Shore Davit: PL65, PL85, PL100, PL110, PL120, PL138, PL150, PL180, PL200, PL230.	
		Fast Rescue Boat Davit: LFR30, LFR35, LFR55, LFRH30, LEFR50, LFRH60, DH30, SAWH30, SAWH45, SAWH60.	
		Boat Winch: D21KN, D25KN, D32KN, D35KN, D48KN, D63KN, D65KN, D80KN, D100KN, D120KN, DP65KN, DP85KN, DP100KN, DP110KN, DP120KN, DP138KN, DP150, DP180KN.	

Launching Appliances	ORIENTAL INSPECTION & SERVICE CO., LTD.	Hinged Gravity Type Davit & Winch: Davit : HGD Series, HGK Series, SHS Series, RTD Series, DHA Series, DMA Series. Winch : BWE Series, SWE Series, WL Series.	
		Free Fall Davit & Winch: FD Series, WL Series.	
		Rescue/Liferaft Davit & Winch: RD Series, RDW Series.	
Release Gear	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD.	Hook: JX and JXN Series.	
	QINGDAO BEIHAI BOATBUILDING CO., LTD.	Gravity Lifeboat: BG-3/3S/3R/3L/7/10, BH-HOOK3/5, FS5/7/10/13.	
		Freefall Lifeboat: BG-3F, 3.5F, 4F, 4.5F, 4.5FL, 5F, 6F.	
		Rescue Boat: BG-2R,Wuxi XS series, Jimo CS series.	
	CSSC LUZHOU ZHENJIANG MARINE AUXILIARY MACHINERY CO., LTD.	Hook: HK25, HK25B, HK40, HK40C, HK65, SH55, SH70, SH85, Handle release hook 15KN, Automatic release hook 21KN/23KN/25KN/35KN.	

Application/Limitation:

1. Any change of facilities or deficiency in operating system of the service supplier having effect on quality of the service may render this Certificate invalid.
2. Periodical audit will be carried out by the Society to ensure the performance of service provider.
3. This certificate is valid until subject to the licenses issued by each manufacturer as listed in the appendix remaining valid.

This certificate means that the company has been assessed in accordance with CR Guidelines and found capable of providing the listed service. It is the Service Supplier's responsibility to employ, train and qualify persons in the provided service. If the service requires approval from manufacturers, the Service Supplier is responsible to maintain contact with the manufacturer and maintain any servicing manuals or work procedures up to date.