



Certificate of General Approval

This is to certify that the undernoted Loading Computer Software has been examined in accordance with the relevant Classification Rules and Procedures, and the applicable Statutory Regulations and is approved for the functions stated below and detailed on the Supplement attached hereto.

Company	Kockumation A/S
Address	Østre Havnevej 2, 3., Svendborg, 5700, Denmark
Software Name	LOADSTAR (Windows)
Software ID/Version Number	1.0 (release 1.2)
Minimum Hardware Specifications	Intel Pentium i5, 8 GB RAM, 21" wide screen monitor. For large container vessels 16 GB RAM is required.
Operating System	Windows 7 (Recommended Windows 10)
User's Operations Manual ID	CLI/20/301
Approved Functions	<input checked="" type="checkbox"/> Strength <input checked="" type="checkbox"/> IACS UR L 5 Type 1 - Intact Stability <input checked="" type="checkbox"/> IACS UR L 5 Type 2 - Damage Stability (Limiting Curves) <input type="checkbox"/> IACS UR L 5 Type 3 - Damage Stability (Direct Calculatlions) <input type="checkbox"/> IACS UR L 5 Type 4 - Damage Stability (Safe Return to Port)
Strength Design Appraisal Document	---
Stability Design Appraisal Document	---

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Ship Structure - Principal Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Supplement

Strength Features

Bulkhead Shear Force Correction Factors – Ship rules	No
Bulkhead Shear Force Correction Factors - CSR Before 1st July 2015	No
Bulkhead Shear Force Correction Factors - CSR From 1st July 2015	No
Permissible Cargo Torque	Yes
Strength With Any Single Hold Flooded (URS17)	No
Local Double Bottom Strength (URS1A)	No
Permissible Shear Forces and Bending moments	Yes

Intact Stability Features

Hydrostatic Data	Trimmed (pre-programmed)
Tank capacity Data	Even keel (pre-programmed)
Cross curve Data	Trimmed (pre-programmed)
Down-flooding Data	Trimmed angles (pre-programmed)
General Criteria Check	Intact Stability Code, as amended - MSC267(85)
Weather Criteria	Intact Stability Code, as amended - MSC267(85)
Windage Data	Variable table
Timber Criteria Check	No
Timber Cargo Water Absorption	No
Ice Accumulation	Deadweight item
Inland Waterways (ADN) (1)	No
Free Surface Moment calculation	Maximum values - Even keel (pre-programmed)
GZ Curve Calculation	Corrected by the maximum upright inertia for all heeling angles
Free Surface Select Options for Each Tank	No
Grain Stability	No
Limiting KG/GM Curves	Single parameter (limit versus even keel draught or displacement); Two parameters (limit versus trimmed draught or displacement)

Damage Stability Features

Limiting KG/GM Curves	Single parameter (limit versus even keel draught or displacement); Two parameters (limit versus trimmed draught or displacement); Combined intact and damage limit curve option
Direct Calculations	No

(1) Type C Tank Ships, Tank Width > 0.7B

(2) Applicable to Type 3 functionality only



Supplement

Operational Information for Safe Return to Port No

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