

Final Design Deliverable

Project ID

LAN2500014

Client

Universal Motion Components Co., LLC

Asset

Closing appliances (Hatch Covers)

Service

Component Approval

Client contact

Raymond Call

LR Project ManagerMarta Michałowska
Gdansk Service Delivery Office**LR Disciplines**

Hull

LR TSO EngineerSwapnil Sankpal
Mumbai Service Delivery Office

The documents listed in this FDD have been reviewed for compliance with the Lloyd's Register Rules and Regulations for the Classification of Ships, January 2024 edition, from the perspective of hull structural aspects only. This appraisal is based on the assumption that no specific information regarding the intended vessel was provided, and the appraisal status has been assigned accordingly as indicated below :-

This Final Design Deliverable was generated from the Digital Workbench on 06 October 2025 07:51 UTC.

Lloyd's Register Global Technical Support Office
Lloyd's Register Marine and Offshore India LLP
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Documents

Number	Name	Revision	Status	Status Update
02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C	Approved	06 Oct 2025 07:42
02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Approved	06 Oct 2025 07:43
ATS-3733210-H-001	Marine Design Appraisal Document	-	Not Required	06 Oct 2025 07:14

Document Comments

ID	Number	Name	Revision	LR Discipline	Status
013 AQS	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		
Under no circumstances shall the deck plate thickness exceed that of the hatch cover plate on which the hatch is intended to be installed.					
012 AQS	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C	Hull	Client Response
Hatch coaming is not covered in this appraisal. It is to be as per Vessel's approved hatch arrangement plan.					
This shall be the builder's responsibility to ensure hatch coming size should be as per the LR's rules and regulation according to it's location and application.					
011 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		
This appraisal concludes that the material of hatch covers and stiffeners are of at least ASTM A36 structural steel as minimum.					
010 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		

Amendments may have not been marked in all the views.

009 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		

Gasket material is to be suitable for the intended service under marine conditions and shall provide the required sealing properties when the hatch is closed weathertight accordance with National/International Standards.

This shall be the responsibility of the Builder.

008 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		

This appraisal does not covers Statutory and fire & safety aspects.

Location of the hatch is not covered in this appraisal and shall be as per vessel's approved hatch arrangement plan. under no circumstances considered deck load should exceed 10t/m2.

007 AQS	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		

The hatches which are categorized as weathertight, are to be confirmed as weathertight from one sides with appropriate test procedures adhering to Lloyd's Register's rules and regulations.

006 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		

Furthermore, the scantlings of these hatches have been evaluated based on the assumption that the permissible load does not exceed 10 t/m2.

005 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C		

This appraisal encompasses the inspection of the plates, stiffening, and related materials used in the construction of the hatches, ensuring compliance with national or international standards, as well as adherence to Lloyd's Register's rules and regulations.

004 INFO	02590-101SH	HATCH, FLUSH-HANDLE 15 x 23 SS HDW (503)	A	Hull	Client Response
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Classification is depended upon and covers only the standard of construction, materials and workmanship of the hull and machinery and their essential appliances as prescribed by Lloyd's Register Rules and Regulation and requirements.

It is not concerned with any other fittings, appliances, details or general finish which may be specifically desired or specified by an Owner but nor required by Lloyd's Register Rules.

003 INFO	02570-101SH	HATCH, RAISED 15 X 23 SS HW HANDLE	C	Hull	Client Response
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