OMNIA NAVAL

BATHROOM FIXTURE LOAD TESTING REPORT

VESSEL

CARNIVAL MAGIC

DATE

MAY 23RD, 2026

LOCATION

DRY DOCK GBSL, FREEPORT

Prepared by

OMNIA NAVAL LLC

Scan for traceability and supporting documentation

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1. INTRODUCTION

The purpose of this inspection is to verify the **load capacity and structural response of anchoring points** associated with accessibility elements (grab bars and shower seats) under controlled field-testing conditions.

This assessment is strictly limited to **anchoring interfaces** and does not constitute a full compliance certification of the installed elements.

The review focuses on operational safety from a structural anchorage perspective, based on observed behaviour under applied load conditions.

2. SCOPE OF ASSESSMENT

The scope of this assessment includes:

- Verification of anchoring points associated with grab bars (long and short)
- Verification of anchoring points associated with shower seats
- Assessment of load capacity at fixing interfaces
- Controlled field load testing using calibrated equipment

This assessment excludes evaluation of the structural integrity of the grab bars or seats themselves.

3. METHODOLOGY

3.1 Visual Inspection

A visual inspection was carried out to assess:

- General condition of anchoring interfaces
- Installation integrity at fixing locations
- Alignment and positioning of anchoring supports
- Surface condition of surrounding wall finishes

No detailed assessment of grab bar or seat structural integrity was performed.

3.2 Load Testing

Load verification was conducted under controlled field conditions using a **Hilti extractometer (model HAT 28-S)** equipped with a **Hilti analogue pressure gauge and hydraulic actuation valve**.

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The hydraulic valve assembly utilised during testing was identified as follows:

- **Serial Number:** 5433352457
- **Date of Manufacture:** January 2026
- **Calibration Date:** April 2026

The measuring system was verified as calibrated and suitable for load application at the time of inspection.
The testing methodology was defined in accordance with client instructions, considering a reference load capacity of **200 lbs per grab bar**, supported by **two anchoring points**.

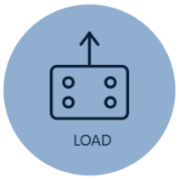
Accordingly:

- The reference load per anchoring point was taken as **100 lbs**
- The applied test load was defined as **120% of this value**, resulting in approximately **120 lbs (≈ 534 N) per anchoring point**

The testing procedure included:

- Load applied locally at each anchoring point using the Hilti extractometer (HAT 28-S)
- Force introduced through controlled manual actuation via the hydraulic valve system
- Load monitored continuously through the calibrated analogue pressure gauge
- Load applied progressively until the target value was achieved
- Load maintained for short-duration cycles (approximately 5–10 seconds)
- Each accessible anchoring point tested individually

The testing approach was non-destructive and focused exclusively on the verification of **local anchoring point load capacity**.
This assessment did not include full structural loading of the complete assembly (grab bar or shower seat), and remains limited to the performance of individual fixing interfaces under the defined test load.



4. FINDINGS SUMMARY

ID	Location	Element	Qty (Anchor Pairs)	Status	Observations	Recommendation
ONM-BFLT-AP-001	Deck 12 – Ladies Locker	Shower Anchoring Points (Grab Bars + Seat)	3	Operational	All anchoring points demonstrated stable performance under applied load	No action required

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ID	**Location**	**Element**	**Qty (Anchor Pairs)**	**Status**	**Observations**	**Recommendation**
ONM-BFLT-AP-002	Deck 12 – Ladies Locker	Toilet Grab Bar Anchoring Points	2	Operational	Anchorage points performed satisfactorily under controlled load testing	No action required
ONM-BFLT-AP-003	Deck 12 – Mens Locker	Shower Anchoring Points (Grab Bars + Seat)	3	Operational	All anchoring points demonstrated stable performance under applied load	No action required
ONM-BFLT-AP-004	Deck 12 – Mens Locker	Toilet Grab Bar Anchoring Points	2	Operational	Anchorage points performed satisfactorily under controlled load testing	No action required
ONM-BFLT-AP-005	Deck 14 – Ladies Locker	Shower Anchoring Points (Grab Bars + Seat)	3	Operational	Stable anchoring response observed under applied test load	No action required
ONM-BFLT-AP-006	Deck 14 – Ladies Locker	Toilet Grab Bar Anchoring Points	2	Operational	Anchorage points performed within expected parameters	No action required
ONM-BFLT-AP-007	Deck 14 – Mens Locker	Shower Anchoring Points (Grab Bars + Seat)	3	Operational	Stable anchoring response observed under applied test load	No action required
ONM-BFLT-AP-008	Deck 14 – Mens Locker	Toilet Grab Bar Anchoring Points	2	Operational	Anchorage points performed within expected parameters	No action required
ONM-BFLT-AP-009	Deck 19 – Dry Float Room	Shower Anchoring Points (Grab Bars + Seat)	3	Operational	Anchorage points demonstrated satisfactory performance under applied load	No action required

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5. RESULTS

All inspected anchoring points demonstrated **satisfactory performance** under the defined test loads applied using calibrated extraction equipment.

No signs of failure, detachment, or instability were observed at the anchoring interfaces during the application load.

The tested anchoring points showed consistent and stable response under controlled loading conditions.

6. LIMITATIONS

- Testing limited to accessible anchoring points only
- No verification of internal reinforcement or backing structure
- Testing performed under field conditions using calibrated extraction equipment
- No full system load testing of complete assemblies performed
- Assessment limited to anchoring point performance under defined test loads

7. CONCLUSION

The anchoring points assessed demonstrated satisfactory performance under controlled test loads applied using calibrated extraction equipment.

Based on the observations recorded during testing, the anchoring interfaces tested are considered adequate for their intended function under the defined load conditions.

This assessment is limited to the verification of individual anchoring points and does not constitute full system certification in accordance with other adrequirements.

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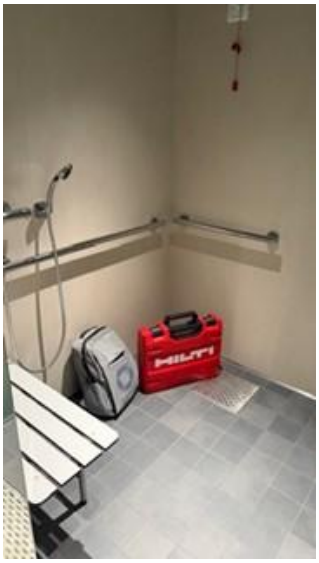
8. PHOTO EVIDENCE

Photographic records include:

- Anchoring point locations
- Load testing using extractometer
- Equipment identification and gauge readings
- General installation condition







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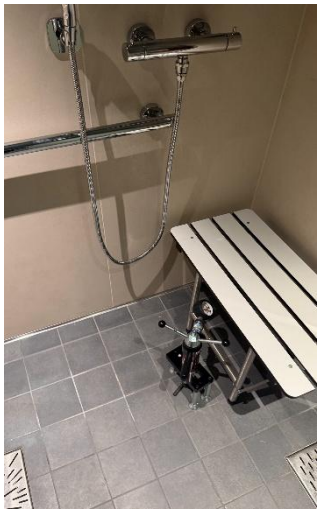

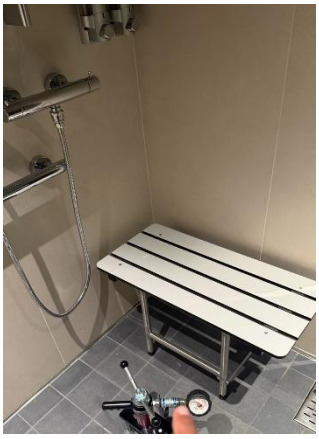

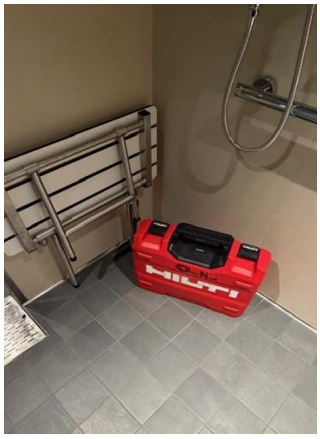

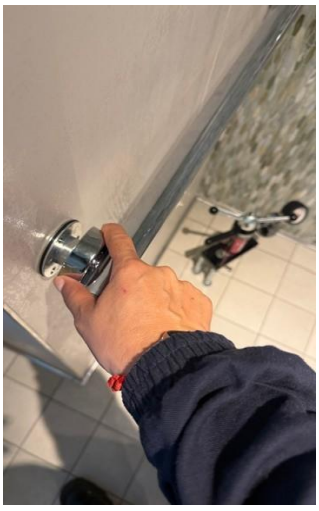

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9. TRACEABILITY

This report incorporates QR-based traceability linking to:

- Full inspection dataset
- Photographic evidence
- Equipment identification and calibration records

OMNIA NAVAL LLC appreciates the trust placed in its services and remains available to support future technical requirements.

Marcela Cazorla Espinosa
Managing Director (MD)
OMNIA NAVAL LLC

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