

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Nord-Lock AB</b>
<b>Address</b>	Halabacken 180, 83791 Mattmar, Sweden
<b>Type</b>	Locking Washer
<b>Description</b>	Wedge Locking Washer NL3 - NL130 NL3ss – NL80ss NL3ss-254 – NL39ss-254 NL3ss-276 – NL39ss-276 NL3ss-718 – NL39ss-718
<b>Trade Name</b>	Nord-Lock Original Washer
<b>Application</b>	Marine/Offshore/Industrial
<b>Specified Standard</b>	Lloyds Register Rules and Regulation for the Classification of Offshore Units 2020
<b>Ratings</b>	Please see Appendix
<b>Other Conditions</b>	The products are not fire proof tested

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## Type Approval Certificate

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

## Appendix

**Rating:**

Application parameters	Steel washers	Stainless steel washers	254 SMO washers	Alloy C-276 washers	Alloy 718 washers
Steel type	EN 1.7182 or equivalent	EN 1.4404 or equivalent	EN 1.4547 or equivalent	EN 2.4819 or equivalent	EN 2.4667 or equivalent
Bolt sizes	M3-M130	M3-M80	M3-M39	M3-M39	M3-M39
Washer type	NL3-NL130	NL3ss-NL80ss	NL3ss-NL39ss	NL3ss-NL39ss	NL3ss-NL39ss
Washer hardness	≥ 465 HV1	≥ 520 HV0.05	≥ 600 HV0.05	≥ 520 HV0.05	≥ 620 HV0.05
Temperature range	- 50°C to 200 °C	- 160°C to 500 °C	-160°C to 500 °C	-160°C to 500 °C	-160°C to 700 °C