Certificate no.:
TAE00004YC

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Support System

with type designation(s)
Niedax L-Profile, U-Profile, C-Profile

issued to
NIEDAX GmbH & Co. KG
Linz am Rhein, Rheinland-Pfalz, **Germany**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Material	**Metallic**
Suitable for open deck	**Yes**

Issued at **Hamburg** on **2024-10-16**
This Certificate is valid until **2029-10-15**.
DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Carsten Hunsalz**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

TYPE:	Niedax L 100.100-2.0 E4G	Niedax L 100.100-2.0 F
Standard surface:	Stainless steel SS316 L (1.4404)	Hot dipped galvanized steel S235JR
Thickness:	Stainless Steel: 2.0 mm	Steel: 2.0 mm
Support set up:	U, T, L and Cantilever support, refer to IEC 61537 Figure 46, 44b, 36c and 24.	

IEC 61537	Dimension		SWL
	Width	Height	
	[mm]	[mm]	[kN]
Figure 46	1000	1000	7,54
	1500	1000	6,17
	2000	1000	4,08
Figure 36c	400	1000	3,09
	600	1000	2,26
	600	1500	2,60
	700	600	1,67
Figure 44b	1150	1000	7,21
	1600	975	5,57
Figure 24	600	-	3,41
	800	-	2,36
	1000	-	1,57

TYPE:	Niedax L 100.100-3.0 E4G	Niedax L 100.100-3.0 F
Standard surface:	Stainless steel SS316 L (1.4404)	Hot dipped galvanized steel S235JR
Thickness:	Stainless Steel: 3.0 mm	Steel: 3.0 mm
Support set up:	U, T, L and Cantilever support, refer to IEC 61537 Figure 46, 44b, 36c and 24.	

IEC 61537	Dimension		SWL
	Width	Height	
	[mm]	[mm]	[kN]
Figure 46	1000	1000	15,91
	1500	1000	10,58
	2000	1000	7,54
Figure 36c	400	1000	4,48
	600	1000	4,44
	600	1500	3,29
	700	600	2,27
Figure 44b	1150	1000	14,18
	1600	975	10,66
Figure 24	600	-	5,61
	800	-	3,63
	1000	-	2,45

TYPE:	Niedax U 5050 E4LG	Niedax U 5050 F
Standard surface:	Stainless steel SS316 L (1.4404)	Hot dipped galvanized steel S235JR
Thickness:	Stainless Steel: 2.5 mm	Steel: 2.5 mm
Support set up:	U support, refer to IEC 61537 Figure 46	

IEC 61537	Dimension		SWL
	Width	Height	
	[mm]	[mm]	[kN]
Figure 46	1000	1000	5,51
	1500	1000	3,36
	2000	1000	2,44

TYPE:	Niedax U 6040 E4LG	Niedax U 6040 F
Standard surface:	Stainless steel SS316 L (1.4404)	Hot dipped galvanized steel S235JR
Thickness:	Stainless Steel: 4.0 mm	Steel: 4.0 mm
Support set up:	U support, refer to IEC 61537 Figure 46	

IEC 61537	Dimension		SWL
	Width	Height	
	[mm]	[mm]	[kN]
Figure 46	1000	1000	9,58
	1500	1000	5,29
	2000	1000	3,37

TYPE:	Niedax 2996Z E4LG	Niedax 2996Z FL
Standard surface:	Stainless steel SS316 L (1.4404)	Hot dipped galvanized steel S235JR
Thickness:	Stainless Steel: 2.5 mm	Steel: 2.5 mm
Support set up:	U support, refer to IEC 61537 Figure 46	

IEC 61537	Dimension		SWL
	Width	Height	
	[mm]	[mm]	[kN]
Figure 46	1000	1000	6,95
	1500	1000	3,82
	2000	1000	2,07

Accessories:

L-Profile: FLM 10X25 E4 CAD 261180, FLM 10X25 F CAD 143984, KNW 198.198-5.0 E4G CAD 261278, KNW 198.198-5.0 F CAD 264487, KP 100.100_200 E4G CAD 261465, KP 100.100_200 F CAD 264443, SVL 100.100-4.0 E4G CAD 259732, SVL 100.100-4.0 F CAD 264439

U-Profile: FLM 10X25 E4 CAD 261180, FLM 10X25 F CAD 143984, KU 5050 CAD 149898, KU 5050 E5 CAD 176718, VB 50 CAD 143967, VB 50 E3 CAD 203692, KU 6040 CAD 150189, KU 6040 E5 CAD 161584, VB 6040 CAD 134284, VB 6040 E5 CAD S14111

C-Profile: FLM 10X25 E4 CAD 261180, FLM 10X25 F CAD 143984, KU 6040 CAD 150189, KU 6040 E5 CAD 161584, SSV 4141 F CAD 180106

Application/Limitation

To be installed in accordance with the manufacturer's instructions and DNV rules.

Suitable for open deck

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 61537:2023.

Marking of product

Manufacturer – Type designation – Type - Width – Height – Length – Lot no.

Place of Production

Niedax GmbH & Co. KG, Industriestraße 44, 53562 St. Katharinen

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer’s product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE