Certificate no.:
TAP000032B

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Flexible Hoses and Hose assemblies of Non-Metallic Material

with type designation(s)
XHD, XTW, LTW

issued to
ELAFLEX HIBY GmbH & Co. KG
Hamburg, **Germany**

is found to comply with
prEN 1761:2024-10-Draft Rubber hoses and hose assemblies for fuel truck delivery – Specification

Application:

Fuelling hoses

Type:	Temperature range:	Max. working press.:	Sizes:
XHD	-20°C up to +65°C	20bar	DN19 - DN75
XTW	-20°C up to +65°C	20bar	DN25 - DN100
LTW	-20°C up to +65°C	20bar	DN50 - DN100

Issued at **Hamburg** on **2025-09-16**

This Certificate is valid until **2030-09-15**.

for **DNV**

DNV local unit: **Essen**

Approval Engineer: **Hagen Markus**

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 300,000 USD.

Product description

Rubber hoses and hose assemblies for fuel truck delivery.
Reference: Elaflex catalogue “Petrol + Chemical Hoses, Section 1”:

Economy fuel oil reel hose without helix for petroleum-based products
Type XHD
Lining : Nitrile rubber (NBR), black, electrically dissipative
Reinforcements : Two low tensile textile braids
Cover : Nitrile rubber / PVC, black, electrically conductive

Economy tank truck reel hose with helix for petroleum-based products
Type XTW
Lining : Nitrile rubber (NBR), black, electrically conductive
Reinforcements : Textile braids and galvanised steel helix
Cover : Chloroprene (XTW 25-50:NBR/PVC) electrically conductive

Type LTW light weight tank truck hose with corrugated cover
Lining : Nitrile rubber (NBR), black, conductive, no fuel solubility
Reinforcements : Textile braids and two embedded non-kinking galvanised steel helixes in the conductive layer
Cover : Chloroprene (CR) black, electrically conductive
Special type light weight tank truck hose with smooth bore and with corrugated cover. Same material, range of application and the yellow bands as type TW.

Application/Limitation

Fuelling hoses
This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to maritime classification by DNV.

Type Approval documentation

Tests carried out

Type tests according to hose design standard EN 1761

Marking of product

Scope	Example
Hose assembly manufacturer	ELAFLEX MADE IN GERMANY
Type	ELAFLEX XHD
Design standard	EN 1761
Production date hose Quarter / Year	3Q-25

Periodical assessment

Not applicable.