

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**.

DNV local unit: **Essen**

Approval Engineer: **Hagen Markus**

for **DNV**



Digitally Signed By:
Sven Klinger
Location: DNV Hamburg,
Germany

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

- Elaflex catalogue Petrol + Chemical hoses, Section 1, Revision 08.2025
- Assessment reports
 - Hose production site ContiTech Korbach
 - Hose assembly production site ELAFLEX HIBY, Hamburg
- Burst pressure test carried at ELAFLEX HIBY, Hamburg

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.