

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Flexible Hoses and Hose assemblies of Non-Metallic Material**

with type designation(s)  
**Slimline SL, SL 'LT', SL 'SF'**

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

is found to comply with  
**EN 13483:2022 Rubber and plastic hoses and hose assemblies with internal vapour recovery for measured fuel dispensing systems – Specification**  
**AS 2683:2000 Hose and hose assemblies for distribution of petroleum and petroleum products (excepting LPG)**

## Application :

**Petrol Pump Rubber Hoses and Hose Assemblies for Vapour Recovery Fuel Dispensing Systems**

**Temperature range:** -30°C up to +55°C, -40°C up to +55°C hose type SL 'LT'  
**Max. working press.:** 16bar  
**Sizes:** DN21

Issued at **Hamburg** on **2023-09-14**

This Certificate is valid until **2028-09-13** .  
DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Hagen Markus**

for **DNV**



Digitally Signed By: Klinger, Sven  
Location: DNV GL SE Hamburg, Germany  
Signing Date: 26.09.2023

**Sven Klinger**  
**Head of Section**

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**

SLIMLINE quality petrol pump hoses and assemblies for gasoline and diesel fuels.

**Hose design**

Lining : Nitrile rubber (NBR), black, seamlessly extruded, electrically dissipative, no discolouration  
 Reinforcements : Two low tensile textile braids with crossed, interwoven conductivity strands  
 Cover : smooth, UV and ozone resistant, oil resistant, highly abrasion resistant.

Reference: Elaflex catalogue Section 1: Petrol Pump Hoses, pages 111a,b and c

**Application/Limitation**

Petrol pump hose assemblies for gasoline and diesel fuels for Vapour Recovery and Fuel Dispensing Systems.


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

**Type Approval documentation**

**Tests carried out**

Type tests according to hose design standard EN 13483:2022 and AS 2683:2000

**Marking of product**

Scope	Example
Hose	ELAFLEX  MADE IN GERMANY
Type	ELAFLEX SLIMLINE
Design standard	EN 13483 TYPE 1 Q 16bar AS 2683 4-2-2 1600kPa
Production date hose Quarter / Year	08-23

**Periodical assessment**

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>