

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', SL 'BIO-/DIESEL', SL 'AdBlue'

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

is found to comply with
EN 1360:2013 Rubber and plastic hoses and hose assemblies 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 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: DN16, DN19, DN21, DN25

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. Also suitable for fuels with ethanol content up to E 85 and Biodiesel up to B30 (BIO Type SL 'BIO-/DIESEL' up to B100).

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 Hoses for gasoline and diesel fuels.


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 1360:2013 and AS 2683:2000

Marking of product

Scope	Example
Hose assembly manufacturer	ELAFLEX  MADE IN GERMANY
Type	ELAFLEX SLIMLINE
Design standard	EN 1360 TYPE 1 Ω 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>

End of certificate