



**DGVU Test**  
Prüf- und Zertifizierungsstelle  
BG Verkehr  
Dienststelle Schiffssicherheit

# CERTIFICATE

We hereby confirm that the company

**RENOLIT SE**  
**Zweigniederlassung München**  
Morgensterstraße 9  
D - 81479 München

has introduced and implemented a  
**quality management system**

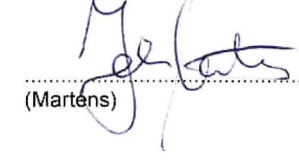
for the whole company in accordance with

**DIN EN ISO 9001 : 2015.**

Scope: development, production and sales of plastic foils and films for industrial processing.

Compliance with the requirements of the standard has been proved by means of an audit, documented in a report.

This certificate with the number **SEE1804** is valid until **26.01.2021**.  
Hamburg, 23.02.2018

  
(Martens)

postal address: POB 11 04 89 • D - 20404 Hamburg • visiting address : Brandswiete 1 • D - 20457 Hamburg  
phone : 0049-40-36137-0 • fax : 0049-40-36137 204  
E-Mail : [Schiffssicherheit@bg-verkehr.de](mailto:Schiffssicherheit@bg-verkehr.de) • [www.deutsche-flagge.de](http://www.deutsche-flagge.de)

Z0501-E-SEE  
06/16

Mathias Schrafl, Sales Director;  
"All our products meet the very  
highest standards and comply with  
the current REACH regulations."



For our latest  
certificates have a  
look at  
[go.renolit.com/  
shipinterior](http://go.renolit.com/shipinterior)



Europäisch notifizierte Stelle  
Kennnummer 0736  
European notified body  
Identification number 0736

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## EG-Baumusterprüfbescheinigung (Modul B) EC-Type Examination (Module B) Certificate

Zulassungs-Nr. **118071-01** U.S. Coast Guard Zulassungs-Nr. **164.112/EC0736/118071-01**  
Certificate No. U.S. Coast Guard Approval No.

Hersteller (Antragsteller) Manufacturer (Applicant)	RENOLIT SE Zweigniederlassung München	
Adresse Address	Morgensterstr. 9 81479 München (Deutschland / Germany)	
Ausrüstung (Nummer & Bezeichnung) Equipment (Number & Item designation)	MED/3.18a	Oberflächenwerkstoffe und Bodenbeläge mit geringem Brand- ausbreitungsvermögen (Dekorverniere) Surface materials and floor coverings with low flame-spread characteristics (decorative veneers)
Produkttyp Product Type	RENOLIT ALKORFOL STEEL P ship / RENOLIT ALKORFOL STEEL P ship, self adhesive	
Produkteinschränkung Product Restriction	n/a n/a	
Prüfgrundlage Specified Standard	IMO-Entscheidung MSC.307(88)-(FTP-Code 2010) Anlage 1, Teil 2*, Teil 5 *) = nicht anwendbar IMO Resolution MSC.307 (88)-(FTP-Code 2010)* Annex 1, Part 2*, Part 5 *) = not applicable	

Die auf den folgenden Seiten aufgeführten Bedingungen sind Bestandteil dieses Zertifikats.  
Diese Baumusterprüfbescheinigung gilt, solange sie nicht entzogen oder widerrufen wird und die Gegenstände unverändert,  
einsatzfähig eingesetzt werden.  
The listed conditions on following pages are part of this certificate.  
This certificate remains valid unless cancelled or revoked, provided the conditions on following pages are complied with and the equipment  
remains satisfactory in service.  
On this certificate the German text shall prevail.

Hiermit wird bestätigt, dass:  
This is to certify that:  
Die BG Verkehr - Dienststelle Schiffssicherheit die entsprechenden EG-Bauartzulassungsverfahren zur Bewertung  
angewendet hat und das genannte Baumuster den einschlägigen Brandschutz-Bestimmungen der Richtlinie  
2014/90/EU (Schiffsausrüstung) in der jeweils geltenden Fassung, zuletzt geändert durch die Durchführungs-  
verordnung (EU) 2019/1397, vorbehaltlich der im Zertifikat genannten Auflagen, entspricht.  
BG Verkehr - Ship Safety Division did undertake the relevant type approval procedures for the equipment identified below which was  
found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU, as amended by  
Commission Implementing Regulation (EU) 2019/1397 subject to any conditions in the schedule attached hereto.

Ausstellungsdatum **11.10.2019** U.S. Coast Guard Zulassungs-Nr. **164.112/EC0736/118071-01**  
Date of issue U.S. Coast Guard Approval No.  
Ablaufdatum **10.10.2024**  
Expiry date

Postanschrift:  
BG Verkehr  
Dienststelle Schiffssicherheit  
Brandswiete 1  
D-20457 Hamburg



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Europäisch notifizierte Stelle  
Kennnummer 0736  
European notified body  
Identification number 0736

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## EG-Baumusterprüfbescheinigung (Modul B) EC-Type Examination (Module B) Certificate

Zulassungs-Nr. **118070-01** U.S. Coast Guard Zulassungs-Nr. **164.112/EC0736/118070-01**  
Certificate No. U.S. Coast Guard Approval No.

Hersteller (Antragsteller) Manufacturer (Applicant)	RENOLIT SE Zweigniederlassung München	
Adresse Address	Morgensterstr. 9 81479 München (Deutschland / Germany)	
Ausrüstung (Nummer & Bezeichnung) Equipment (Number & Item designation)	MED/3.18a	Oberflächenwerkstoffe und Bodenbeläge mit geringem Brand- ausbreitungsvermögen (Dekorverniere) Surface materials and floor coverings with low flame-spread characteristics (decorative veneers)
Produkttyp Product Type	RENOLIT ALKORFOL STEEL ship / RENOLIT ALKORFOL STEEL ship, self adhesive	
Produkteinschränkung Product Restriction	n/a n/a	
Prüfgrundlage Specified Standard	IMO-Entscheidung MSC.307(88)-(FTP-Code 2010) Anlage 1, Teil 2*, Teil 5 *) = nicht anwendbar IMO Resolution MSC.307 (88)-(FTP-Code 2010)* Annex 1, Part 2*, Part 5 *) = not applicable	

Die auf den folgenden Seiten aufgeführten Bedingungen sind Bestandteil dieses Zertifikats.  
Diese Baumusterprüfbescheinigung gilt, solange sie nicht entzogen oder widerrufen wird und die Gegenstände unverändert,  
einsatzfähig eingesetzt werden.  
The listed conditions on following pages are part of this certificate.  
This certificate remains valid unless cancelled or revoked, provided the conditions on following pages are complied with and the equipment  
remains satisfactory in service.  
On this certificate the German text shall prevail.

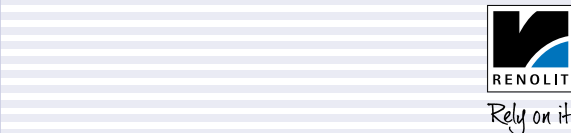
Hiermit wird bestätigt, dass:  
This is to certify that:  
Die BG Verkehr - Dienststelle Schiffssicherheit die entsprechenden EG-Bauartzulassungsverfahren zur Bewertung  
angewendet hat und das genannte Baumuster den einschlägigen Brandschutz-Bestimmungen der Richtlinie  
2014/90/EU (Schiffsausrüstung) in der jeweils geltenden Fassung, zuletzt geändert durch die Durchführungs-  
verordnung (EU) 2019/1397, vorbehaltlich der im Zertifikat genannten Auflagen, entspricht.  
BG Verkehr - Ship Safety Division did undertake the relevant type approval procedures for the equipment identified below which was  
found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU, as amended by  
Commission Implementing Regulation (EU) 2019/1397 subject to any conditions in the schedule attached hereto.

Ausstellungsdatum **11.10.2019** U.S. Coast Guard Zulassungs-Nr. **164.112/EC0736/118071-01**  
Date of issue U.S. Coast Guard Approval No.  
Ablaufdatum **10.10.2024**  
Expiry date

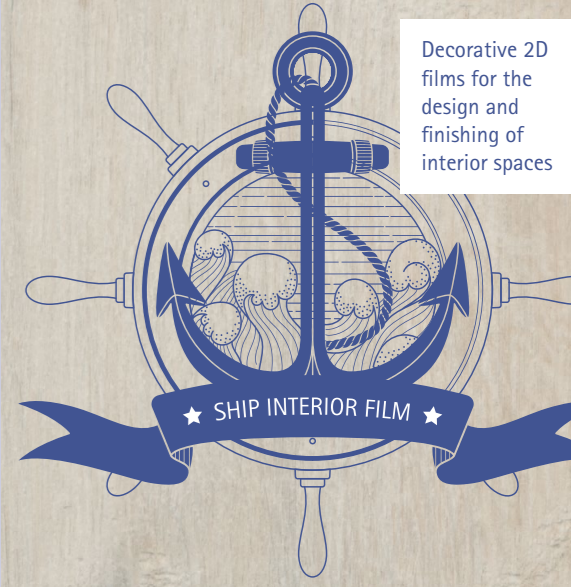
Postanschrift:  
BG Verkehr  
Dienststelle Schiffssicherheit  
Brandswiete 1  
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**RENOLIT ALKORFOL STEEL**  
The film for ship interiors



Decorative 2D  
films for the  
design and  
finishing of  
interior spaces



Europäisch notifizierte Stelle  
Kennnummer 0736  
European Notified Body  
Identification Number 0736

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BG Verkehr  
Dienststelle Schiffssicherheit

## Qualitätssicherungssystem-Zertifikat Quality Assurance System Certificate

Zertifikat-Nr.  
Certificate No. **SEE20014**

Hiermit wird bestätigt, dass das Qualitätssicherungssystem des Herstellers:  
We hereby confirm that the quality assurance system of the manufacturer:

Hersteller (Antragsteller)  
Manufacturer (Applicant) **RENOLIT SE - Zweigniederlassung München**

Adresse  
Address **Morgensterstraße 9  
D - 81479 München**

Gemäß der:  
As per: **Richtlinie 2014/90/EU (Schiffsausrüstungsrichtlinie)  
Directive 2014/90/EU (Marine Equipment Directive)**

in Übereinstimmung ist  
mit: **Modul D**  
is in conformity with: **Module**

Liste der zugelassenen Ausrüstungsgegenstände siehe Anlage.  
Approved products are listed in the annex.

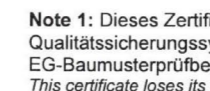
Produktionsstätten:  
Production Sites: Renolit SE, Weinsheimer Straße 59, D - 67547 Worms.

Dieses Zertifikat bleibt gültig, solange es nicht widerrufen wird, zurückgenommen wird oder  
abgelaufen ist.  
This certificate remains valid unless cancelled, expired or revoked.  
On this certificate the German text shall prevail.

In pursuance of the EU/USCG Mutual Recognition Agreement, signed February 27th 2004, and in accordance with the  
Decision No. 1/2018 of February 18th 2019, the manufacturer is permitted to affix under our authorization the  
U.S. Coast Guard approval number on the relevant equipment as assigned by us on the EC type approval certificate  
(module B) or the annex thereto.

Ausstellungsdatum **18.03.2020**  
Date of issue  
Ablaufdatum **11.03.2023**  
Expiry date

Unterschrift (Hackl)  
Signature



Note 1: Dieses Zertifikat wird ungültig, wenn der Hersteller Änderungen oder Modifikationen jeglicher Art am zugelassenen  
Qualitätssicherungssystem durchgeführt hat, die nicht der benannten Stelle gemeldet und mit ihr abgestimmt wurden, sowie die  
EG-Baumusterprüfbescheinigung widerrufen oder entzogen wurde.  
This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality assurance system, which have  
not been notified to and agreed with the notified body named on this certificate and/or after expiry, withdrawal or revocation of the EC TYPE  
EXAMINATION CERTIFICATE (MODULE B).

Note 2: Diese Bescheinigung ermächtigt den Hersteller oder seinen Vertreter innerhalb der EU,  
im Zusammenhang mit der EG-Baumusterprüfbescheinigung (Modul B), das vorgeschriebene  
Konformitätskennzeichen (Steuerrad) an den im Anhang genannten Produkten anzubringen.  
This certificate authorizes the manufacturer or his authorized representative established within the  
Community in conjunction with the EC TYPE EXAMINATION CERTIFICATE (MODULE B) of the equipment  
listed in the annex to affix the "Mark of Conformity" (wheelmark).

Note 3: Beispiel: "Steuerrad" Format  
XXXX Nummer der benannten Stelle, die die Qualitätssicherung beim Hersteller überwacht  
YYYY Das Jahr, in dem das Konformitätskennzeichen angebracht wird.  
Example for "Wheelmark" Format  
XXXX Number of the Notified Body responsible for quality surveillance module  
YYYY The year in which the mark is affixed.

Postanschrift:  
BG Verkehr  
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ZF-AED-01-03

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Internet: [www.deutsche-flagge.de](http://www.deutsche-flagge.de)

Prices and availabilities on request.

RENOLIT SE  
Market Unit Interior Surfaces  
Horchheimer Str. 50  
67547 Worms  
Germany

Phone: +49.6241.303.1222  
Fax: +49.6241.303.18.1141  
[go.renolit.com/shipinterior](http://go.renolit.com/shipinterior)



viny!



Rely on it.



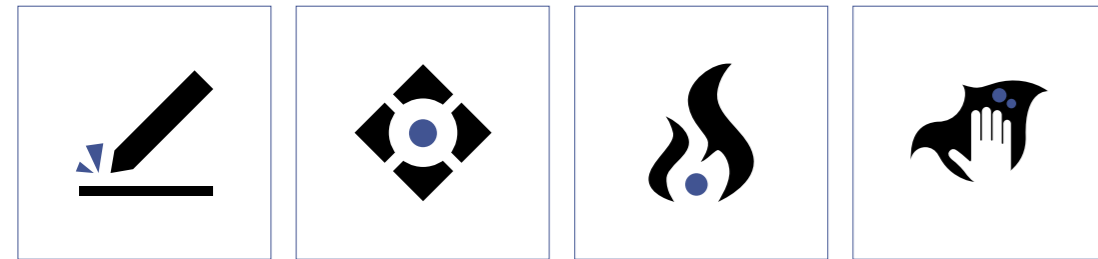
# RENOLIT ALKORFOL STEEL SHIP

The imaginative laminating foil for steel and aluminium

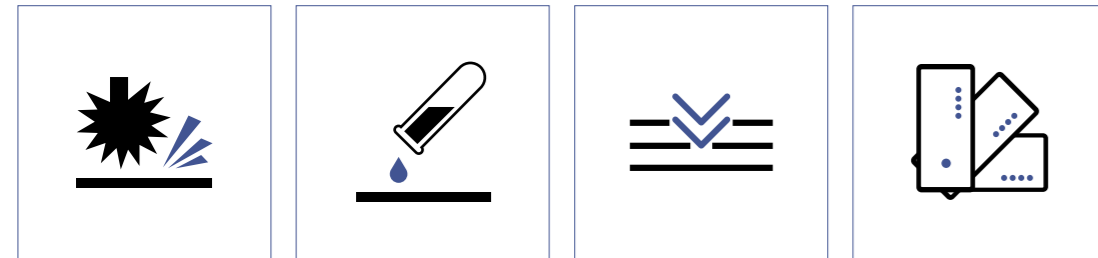
## GENERAL DESCRIPTION

RENOLIT ALKORFOL STEEL ship is a proven speciality film which gives decoration to steel and aluminium surfaces in solid colours, metallic and wood designs. With a virtually infinite range of colours and a rich selection of embossing structures and gloss levels, this robust surface material provides a whole new world of design options. We produce these films with varying performance characteristics, depending upon application – and don't forget that our quality is certified to meet all common international test standards.

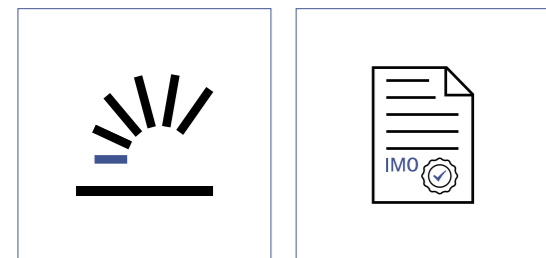
## CHARACTERISTICS\*



Scratch-resistant    Easily deformable    Flame retardant    Easy to clean



Abrasion resistant    Chemical resistant    Deep embossing    Design options



Lightfast    IMO certified



Please find further information at our homepage.

The RENOLIT Group stands for partnership-based service, an international focus and innovative, high-quality, reliable products.

With more than 20 production sites and 15 sales entities in over twenty countries, we are one of the world's leading plastic product manufacturers.

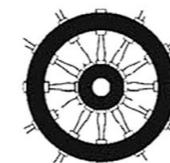
Founded in 1946 with seven employees in Worms (Germany) the company now employs over 4,700 people. Their know-how and commitment make our family-owned business a sought after specialist for high-quality films, sheets and other plastic products.

RENOLIT offers a wide range of thermoplastic films and related services for many different markets. Included amongst them are the construction, furniture, maritime and automotive industries.

We improve the quality of life for many people with our innovative, high-quality and sustainable plastic products which are an essential part of our customers' products.

With many years of experience and a great innovative spirit, RENOLIT DESIGN has developed a superb range of films that can be formed both two and three dimensionally.

## PRODUCT DESCRIPTION



RENOLIT ALKORFOL STEEL ship solid colours | *self-adhesive*    \$40.50.43 | \$40.70.23  
 RENOLIT ALKORFOL STEEL P ship printed | *self-adhesive*    \$40.50.45 | \$40.70.24

## GENERAL DESCRIPTION

This film, which was specially designed for shipbuilding to generate very little smoke and be extremely flame resistant, is certified by the DGUV Test, Examination and Certification Centre (European notified body number 0736) according to IMO resolution MSC.307(88)-(FTP-Code 2010), provided that the foil is applied to metal surfaces (steel, stainless steel, aluminium alloy) with a thickness of  $\geq 0.5$  mm.

This foil is also available with self-adhesive backing and flame retardant as long as it is laminated directly on substrates as mentioned above. This foil is used in shipbuilding for the purpose of constructing or refurbishing ceilings and walls.

## PROPERTIES

Standard thickness Measured using weight per unit area	0.15 mm $\pm$ 10% tolerance (Self-adhesive variety 0.27 mm +/- 10%)
Weight (without protective film, without self-adhesive) DIN EN ISO 536	175 g/m <sup>2</sup> +/- 9%
Behaviour under chemical strain DIN EN 12720 (test substances and exposure time pursuant to DIN 68861/1: 2001-01)	Stress group 1B (test substances 8-11) Stress group 1C (test substances 13-19)
Embossing stability* 10 min. 150°C, convection oven	No visible changes in shine, embossing or colour in comparison to the standard
Lightfastness DIN EN ISO 4892-2, 2006-06 DIN EN ISO 105-B02, 2002-07	$\geq 6$ (blue wool scale)
Optical impression*	Colour, embossing, shine, according to RENOLIT-master sample

\* The degree of embossing or shine present can depend on the lamination process

## MANUFACTURING

Roll length	500 lfm (self-adhesive variety 50 lfm)
Width	up to 1300 mm
Minimum order quantity	3000 lm (smaller quantities are available but subject to availability)

## ENVIRONMENTAL SUSTAINABILITY

Semi-hard PVC foil; recipe that is free of formaldehyde and lead; the printed type is resistant to rubbing. Formula is REACH compliant.

## PROCESSING

The recommendations for covering surfaces is described in more detail in the technical information under "Retrospective surface covering".

## STORAGE CONDITIONS

- Store in a clean, dry place at room temperature (~23°C) in moderate humidity
- The foils can be stored unopened in their original packaging. They should be kept out of direct sunlight and away from heat sources
- Shelf life: without PE-protective covering: ~12 months, with PE-protective covering: 6 months
- The foil should be brought up to room temperature about 72 hours before it is processed



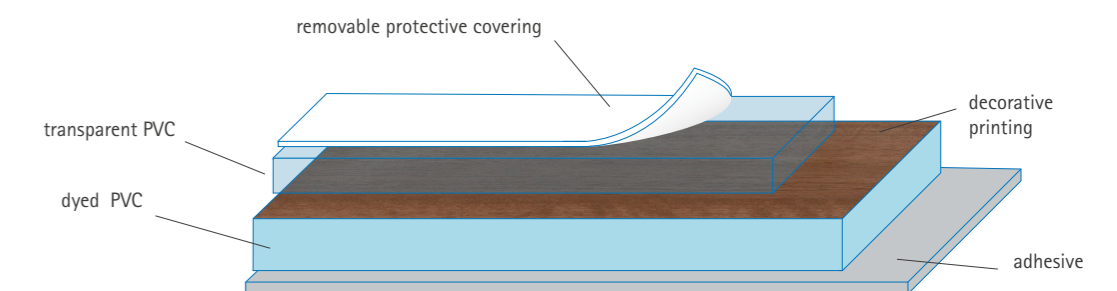
## SELF-ADHESIVE FILMS ON REQUEST

Decoration, renovation and modernisation made easy

In RENOLIT's own training centre you can learn the right way to handle RENOLIT ALKORFOL STEEL ship films and tools. Whether concerning initial design, modernisation or repairing damages of any kind, the self-adhesive films are user-friendly and flexible to use. RENOLIT Film Service is a fast solution for you if the film has any scratches, rips or other damage.

Become an expert in repair trained by experts in films

Are you interested in a qualification to become an authorized RENOLIT partner? We are happy to make you an offer. Contact us at +49.6241.303.1222 or via [design@renolit.com](mailto:design@renolit.com)



## DESIGN CENTRE

Design advice, development and trends of the future are the pillars of our highly experienced team at our Design Centre in Bochum, Germany.

Being an forward-looking company with a strong focus on design, we attach importance to contemporary subjects and to the requests of our customers.

Based on our expert knowledge, competence and passion, we offer individual décors, adapted to the personal requirements of our customers. You can choose between selecting décors from our exclusive design pool, collaborating with our team to evolve an own design or, we can develop an exclusive décor adjusted to your special needs.

[www.renolit.com/en/company/business-units/renolit-design](http://www.renolit.com/en/company/business-units/renolit-design)

48° 4' 20.571" North  
11° 30' 30.544" East

