

# 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

(Matthias)

postal address: POB 11 04 88 - D - 20404 Hamburg - visiting address: Brandseels 1 • D • 20467 Hamburg  
phone: 0049-40-36137-0 • fax: 0049-40-36137-204  
E-Mail: Schifficherheit@dguv-test.de • www.deutsche-flagge.de

2018 01 04  
02 18

Prices and availabilities on request.

RENOLIT SE  
Horchheimer Str. 50  
67547 Worms  
Germany

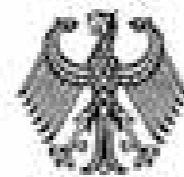
Phone: +49.6241.303.1222  
Fax: +49.6241.303.18.1141  
www.shipinterior.renolit.com



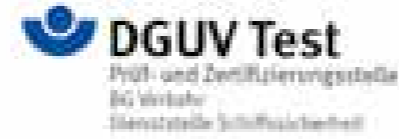
vinyl



Mathias Schraffl, Key Account Manager;  
Richard Gernsbeck, Product Manager;  
"All our products meet the very  
highest standards and comply with  
the current REACH regulations."



Europäisch notifizierte Stelle  
Kennnummer 0738  
European notified body  
identification number 0738



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

Zulassungs-Nr. **118.071** U.S. Coast Guard Zulassungs-Nr. **164.112/EC0738/118.071**  
Certificate No. U.S. Coast Guard Approval No.

Hersteller (Antragsteller) Manufacturer (Applicant)	RENOLIT SE
Adresse Address	Zweigniederlassung München Morgensterstraße 9 81479 München (Deutschland / Germany)
Ausrüstung (Nummer & Bezeichnung) Equipment (Number & Item designation)	Oberflächenwerkstoffe und Bodenbeläge mit geringem Brand- ausbreitungsvermögen (Dekorfolien) Surface materials and floor coverings with low flame-spread characteristics (Decorative vinyls)
Produkttyp Product Type	RENOLIT ALKORFOL STEEL P ship folie / resp. RENOLIT ALKORFOL STEEL P ship, self adhesive
Produktschranke Product Restriction	siehe Seite 3 see page 3
Prüfgrundlage Specified Standard	ISO-Einschließung MSC 307(88) (FTP-Code 2010) Anlage 1, Teil 2 <sup>1</sup> und Teil 5 <sup>1</sup> ) = nicht anwendbar ISO Revision MSC 307 (88) (FTP-Code 2010) Annex 1, Part 2 <sup>1</sup> and Part 5 <sup>1</sup> = 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 Schiffsicherheit 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) 2017/304, vorbehaltlich der im Zertifikat genannten Auflagen, entspricht.  
BG Verkehr - Ship Safety Division did undertake the relevant type approval procedure 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) 2017/304 subject to any conditions in the schedule attached hereto.

Ausstellungdatum Date of issue	18.06.2017
Ablaufdatum Expiry date	15.06.2022

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

Zulassungs-Nr. **118.070** U.S. Coast Guard Zulassungs-Nr. **164.112/EC0738/118.070**  
Certificate No. U.S. Coast Guard Approval No.

Hersteller (Antragsteller) Manufacturer (Applicant)	RENOLIT SE
Adresse Address	Zweigniederlassung München Morgensterstraße 9 81479 München (Deutschland / Germany)
Ausrüstung (Nummer & Bezeichnung) Equipment (Number & Item designation)	Oberflächenwerkstoffe und Bodenbeläge mit geringem Brand- ausbreitungsvermögen (Dekorfolien) Surface materials and floor coverings with low flame-spread characteristics (Decorative vinyls)
Produkttyp Product Type	RENOLIT ALKORFOL STEEL ship folie / resp. RENOLIT ALKORFOL STEEL ship, self adhesive
Produktschranke Product Restriction	siehe Seite 3 see page 3
Prüfgrundlage Specified Standard	ISO-Einschließung MSC 307(88) (FTP-Code 2010) Anlage 1, Teil 2 <sup>1</sup> und Teil 5 <sup>1</sup> ) = nicht anwendbar ISO Revision MSC 307 (88) (FTP-Code 2010) Annex 1, Part 2 <sup>1</sup> and Part 5 <sup>1</sup> = not applicable

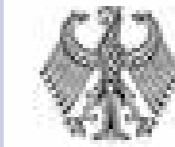
Die auf den folgenden Seiten aufgeführten Bedingungen sind Bestandteil dieses Zertifikats.  
Diese Baumusterprüfbescheinigung gilt, solange sie nicht entzogen oder widerrufen wird und die Gegenstände unverändert,  
einsatzfähig eingesetzt werden.  
The listed conditions on following pages are part of 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 Schiffsicherheit 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-  
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BG Verkehr - Ship Safety Division did undertake the relevant type approval procedure for the equipment identified below which was  
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Commission implementing Regulation (EU) 2017/304 subject to any conditions in the schedule attached hereto.

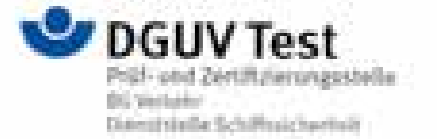
Ausstellungdatum Date of issue	18.06.2017
Ablaufdatum Expiry date	15.06.2022

Europäisch notifizierte Stelle  
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## Qualitätssicherungssystem-Zertifikat Quality Assurance System Certificate

Zertifikat-Nr.  
Certificate No. **SEE17032**

Hiermit wird bestätigt, dass das Qualitätssicherungssystem des Herstellers  
Wir 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 (Maritime Equipment Directive)
In Übereinstimmung ist mit is in conformity with	Modul Module <b>D</b>

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

Produktionsstätten  
Production Sites  
RENOLIT SE  
Horchheimer Straße 50  
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  
Council Decision 2004/425/EC of April 21st 2004, 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."

Ausstellungdatum Date of issue	26.04.2017
Ablaufdatum Expiry date	25.04.2020

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.  
The 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 prior after expiry, withdrawal or revocation  
of the EC TYPE EXAMINATION CERTIFICATE (MODULE B).

Note 2: 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.  
The 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 prior after expiry, withdrawal or revocation  
of the EC TYPE EXAMINATION CERTIFICATE (MODULE B).

Note 3: Beispiel: "Gezerrtes" Format  
XXXX Nummer der benannten Stelle, die die Qualitätssicherung beim Hersteller überwacht  
YYYY Das Jahr, in dem das Konformitätskennzeichen angebracht wird  
(Example for "blurred" format  
XXXX Number of the notified body responsible for quality assurance results  
YYYY The year in which the mark is affixed)

Europäisch notifizierte Stelle  
Kennnummer 0738  
European notified body  
identification number 0738

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RENOLIT ALKORFOL STEEL  
The film for ship interiors



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

# RENOLIT ALKORFOL STEEL

The imaginative laminating foil for steel and aluminium

## GENERAL DESCRIPTION

RENOLIT ALKORFOL STEEL 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.

RENOLIT ALKORFOL STEEL interior: wall and ceiling panelling, room doors, furniture, etc.

RENOLIT ALKORFOL STEEL exterior: entrance doors, garage doors, gates, blinds, etc.

RENOLIT ALKORFOL STEEL food: shop counters, cool storage rooms, cooling trucks interior, kitchen appliances, refrigerators, washing machines, etc.

RENOLIT ALKORFOL STEEL ship: ship interiors, public buildings such as theatres, hotels, hospitals

## CHARACTERISTICS\*

Scratch-resistant  
Easy to form  
Flame retardant  
Easy to clean  
Abrasion resistant  
Light-fast and non-fading  
Chemical resistant  
Permanent emboss retention  
Wide range of design options

\*depending on quality



Please find further information at our homepage.

The RENOLIT Group is an international leader in the manufacture of high-quality thermoplastic films and related products for technical applications.

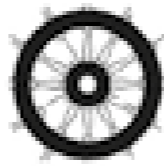
As an independent family-owned business, we have been setting benchmarks for quality and innovation for over 70 years and now employ a workforce of approximately 4,500 employees at more than 30 production sites and sales entities.

The RENOLIT brand enjoys a worldwide reputation for technical expertise, modern product design and customer-orientated service.

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. With many years of experience and a great innovative spirit, our Business Unit 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  
RENOLIT ALKORFOL STEEL P ship printed



### GENERAL DESCRIPTION

Metal lamination foil with low flame-spread characteristics and certified by DGVU Test, Testing and Certification Bodies (European notified body, identification number 0736) according IMO-Resolution MSC.307(88)-(FTP-Code 2010), if the foil is coated on metal substrates (steel, stainless steel, aluminum alloy, thickness of substrate  $\geq 0,5$  mm).

This film is used for demanding applications where low flue gas quality and flame resistance is required, for example: Ship interiors, cabin ceilings, -walls, -furniture.

Interior decorations for public buildings such as authorities, theatres, hospitals, hotels.

### PROPERTIES

Standard thickness	0.15 mm +/-10%	
Hardness	68 +/- 4 shore D	DIN EN ISO 868, 10 s
Behaviour at chemical influence	classification group 1B for the substances 8 to 11, classification group 1C for the substances 13 to 19	DIN EN 12720 (testsubstances acc. to DIN 68861/1: 2001-01)
Embossing stability*	drying oven 10 min.; 150°C	No major change of the surface and the specular gloss
Light fastness	$\geq 6$ (blue scale)	DIN EN ISO 4892-2, 2006-06 DIN EN ISO 105-B02, 2002-07
Optical appearance*	colour, grain and gloss	like RENOLIT master sample

\* the coil coating process may affect the emboss and gloss level

### MODE OF DELIVERY

Roll length	500 lm
Width	up to 1,300 mm
Min. quantity	3,000 lm

### ENVIRONMENT

PVC-semi rigid; formulation free of formaldehyde and lead; the printed type is abrasion protected.

### REQUIREMENTS FOR THE FORMING PROCESS

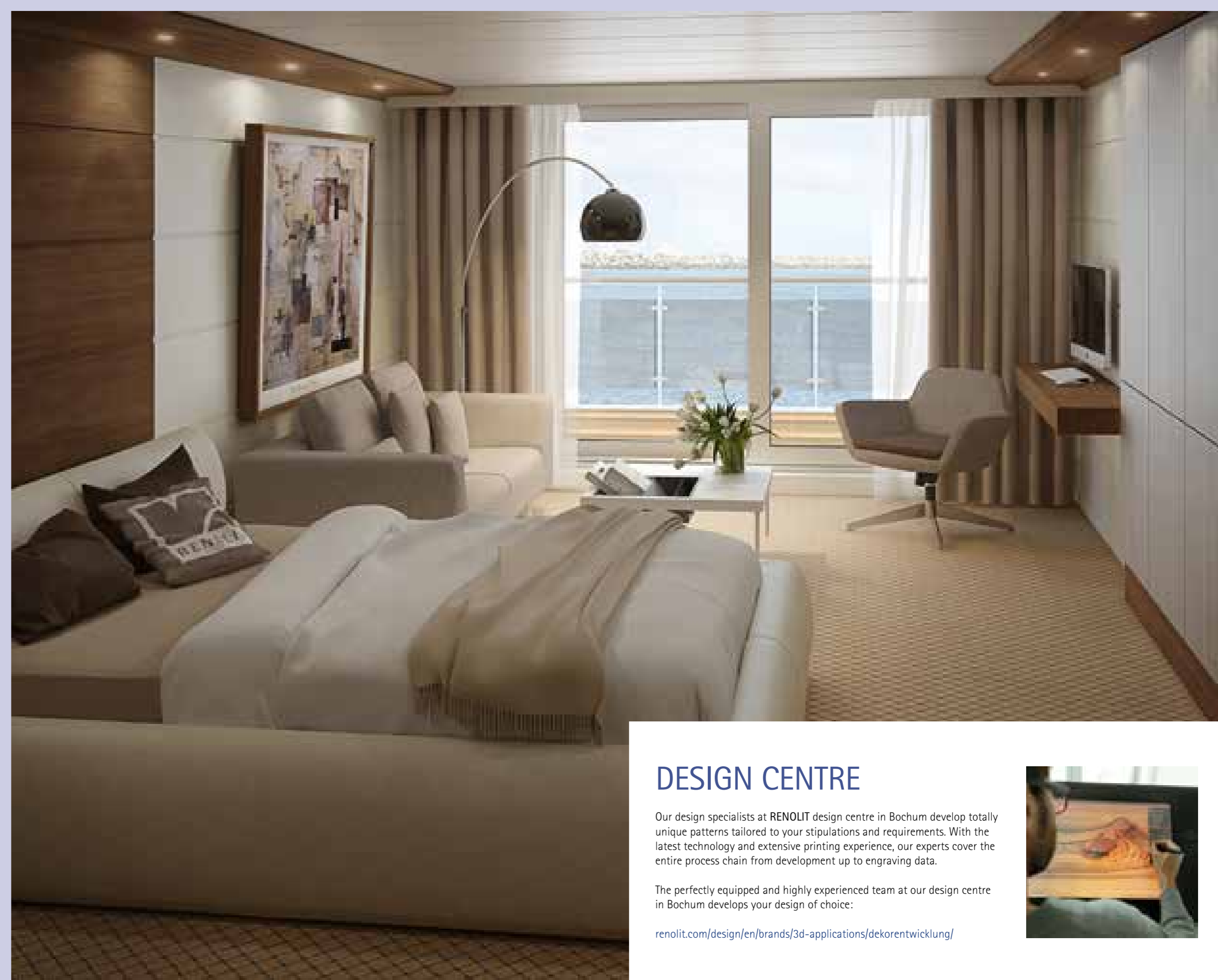
The foil-laminated sheet should have a surface temperature of about 20°C to 35°C during the further processing.

### STORAGE CONDITIONS

- Store in a dry clean environment at room temperature (about 23°C) with moderate humidity
- The material can be suspended in unopened packaging. Store away from sources of heat and sunlight
- Shelf life: without PE protection film about 12 months, with PE protection film 6 months.
- Material should be acclimatised 72 hours prior to use at room temperature (about 23°C)

### TECHNICAL STATUS 2015

This product description sheet represents our latest technical information and shall inform without obligation. The details stated do not release the manufacturer using our products from their own inspections and tests, which must correspond with the relevant national guidelines for its individual intended purpose. It is the duty of the customer to ensure that the purchased product is suitable for its intended purpose.

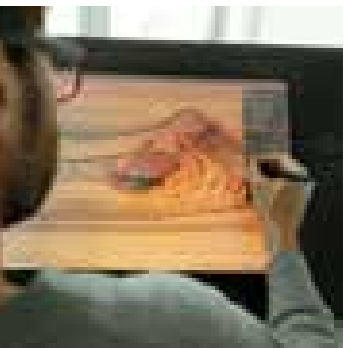


## DESIGN CENTRE

Our design specialists at RENOLIT design centre in Bochum develop totally unique patterns tailored to your stipulations and requirements. With the latest technology and extensive printing experience, our experts cover the entire process chain from development up to engraving data.

The perfectly equipped and highly experienced team at our design centre in Bochum develops your design of choice:

[renolit.com/design/en/brands/3d-applications/dekorentwicklung/](http://renolit.com/design/en/brands/3d-applications/dekorentwicklung/)



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



## SELF-ADHESIVE FILMS

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

Train at the RENOLIT Film Service and qualify as a certified RENOLIT Partner! In doing so, you and your employees will learn about the tools, the RENOLIT repair films and all the steps required in the application process. 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)

