

**RENOLIT
ALKORPLAN**

INSPIRING
POOL
SURFACES

RENOLIT ALKORPLAN DECKING
EXTENDED TECHNICAL DATA SHEET – REV 1/2025

DECKING

Extended technical data sheet

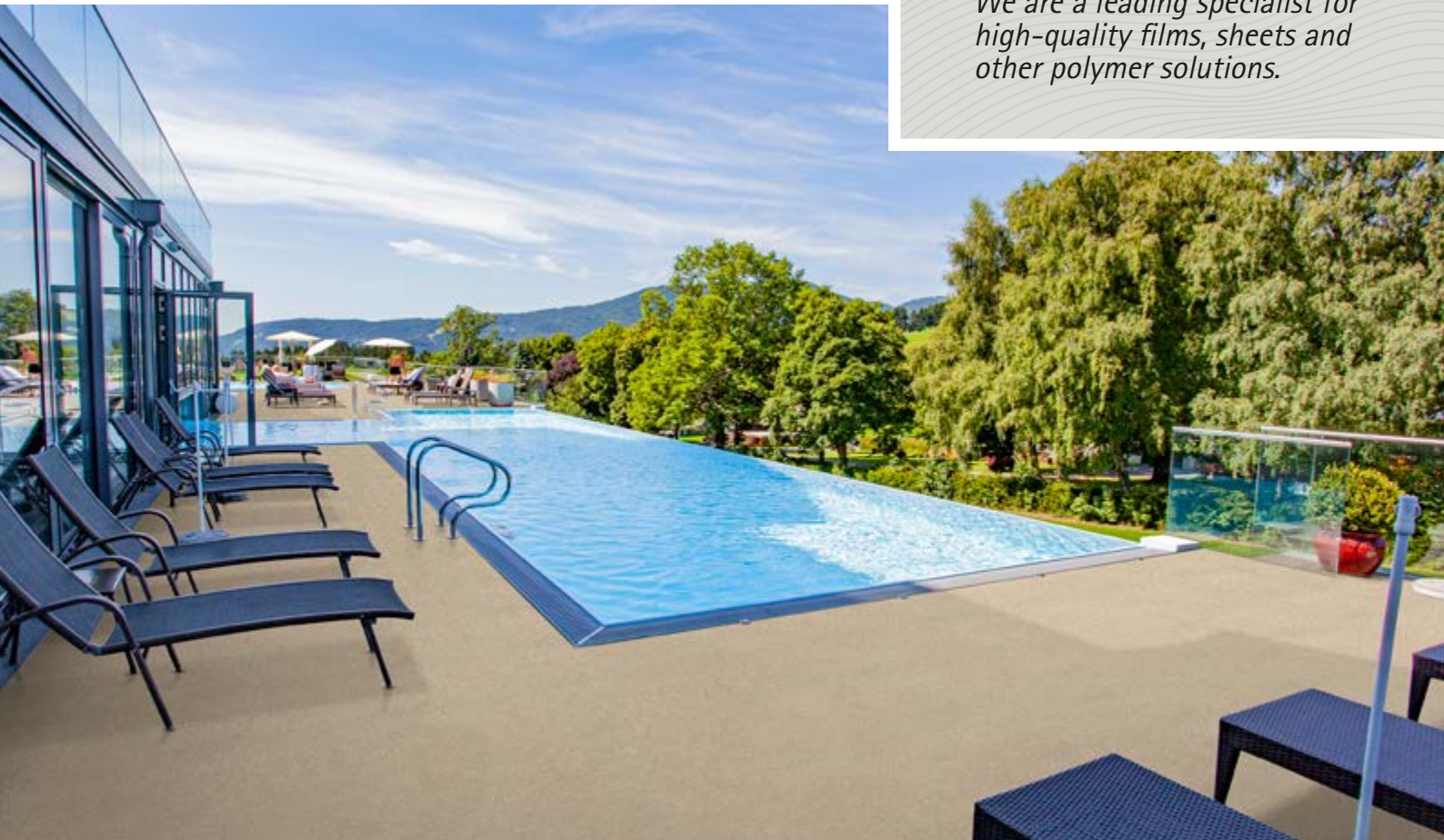


Rely on it.

THE COMPANY

The **RENOLIT Group** is a global specialist in high-quality plastic rolls, sheets and other plastic products. With over thirty locations across more than twenty countries and headquarters in Worms – nearly fifty km northwest of Heidelberg – the **RENOLIT Group** is one of the world's leading plastic product manufacturers. Over 5.000 employees continue to further develop the knowledge and expertise gained during over seventy years in the business.

We are a leading specialist for high-quality films, sheets and other polymer solutions.



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01.

Description



RENOLIT ALKORPLAN
FAMILY: DECKING
LINE: SOLID
TYPE: 35817

Decking material for wet floor areas, made of reinforced PVC membrane.

Slip-resistant, cushioned, and suitable for both indoor and outdoor areas, wherever a watertight surface is needed. Specifically designed for pool deck surfaces, locker rooms and changing rooms. Protected against staining, abrasion, and formulated with UV ray inhibitors. Contains flame retardant additives to meet or exceed requirements, and it is certified as BflS1.

This cost-effective decking solution has been designed for different types of applications: new build, floor replacement and floor overlay. All these characteristics make it extremely versatile and ideal for a wide range of uses, as well as quick to install. It is therefore an optimal solution for refurbishments, eliminating the need for tile replacement of other common flooring surfaces.

RENOLIT ALKORPLAN is supplied in rolls, which allows for a quick installation, with no need to wait for concrete or grout to dry. It does not contain any type of wax or protective layer, therefore no specific cleaning prior to the first use is needed.

Both daily cleaning and regular or maintenance cleaning are simple and do not require specific products or equipment. It is also very easy to sanitize and designed to be comfortable for bare feet.

Our decking membrane is a high-performance product that has passed the toughest tests, making it one of the leading products on the market. Engineered for use in any climate condition, with high dimensional stability and strength. It has been tested against all standards included in flooring CE Marking EN 14041:2018.

In addition, it guarantees a high level of safety thanks to its slip-resistant characteristics, which have been tested against several standards:

- **UNE-ENV 41901:2017**
- **DIN 51130:2014**
- **DIN 51097:1992**
- **CEN/TS 16165**
- **ANSI A137.1-2012**
- **EN 13893**

MAIN APPLICATIONS

- **PUBLIC POOL DECKS**
- **LOCKER AND CHANGING ROOMS**
- **SHOWERS**
- **EXERCISE ROOMS**
- **GYMS**
- **SPA & HOT TUB DECKS**

Choose RENOLIT ALKORPLAN DECKING together with RENOLIT ALKORPLAN POOL MEMBRANE for a complete renovation.



Engineered for use in any climate conditions with high dimensional stability and strength.



02.

Why should you rely on it?

*Long warranty periods are
a symbol of high product
quality, reliability, and
proven durability.*

PRODUCT WARRANTY

Long warranty periods are a symbol of high quality, reliability, and proven durability. For decades, the **RENOLIT Group** has been known for its uncompromising quality policy, which enables them to offer customers a high level of product performance and safety, and therefore long-term warranties.

ADVANTAGES

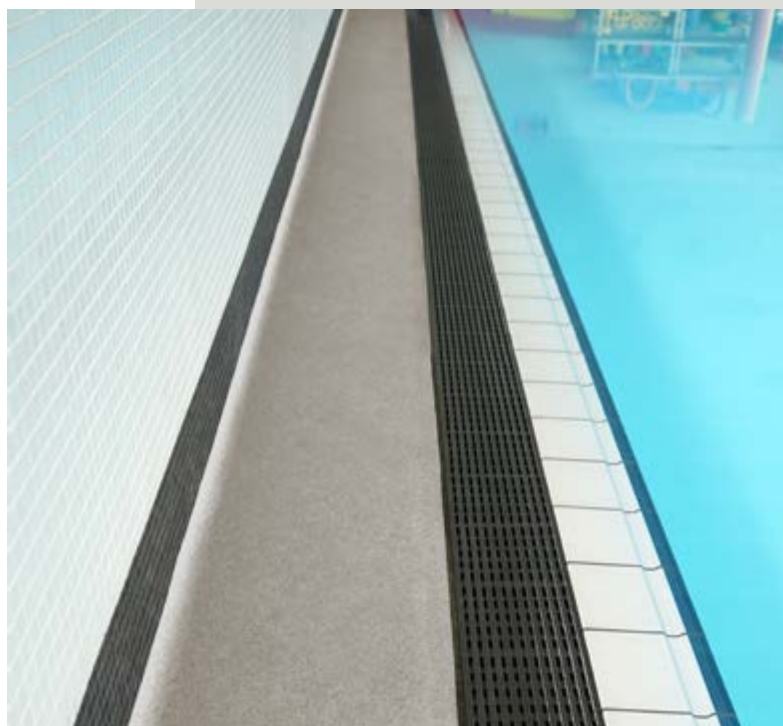
- CE Certificated Product
- BflS1 Fire certification
- Assessed slip resistance Surface
- Assessed UV resistance
- Assessed intensive use resistance
- Heat and Cold resistance
- Insulation neutral
- Dimensional stability
- Overlap weldability
- Weather resistant
- Impact and heavy load resistant
- No expansion joints needed.
- High resistance tensile load
- Free from heavy metals and DEHP
- Lower filler (CaCO₃) in formulation
- No delamination or water absorption
- Compatible with most existing flooring solutions

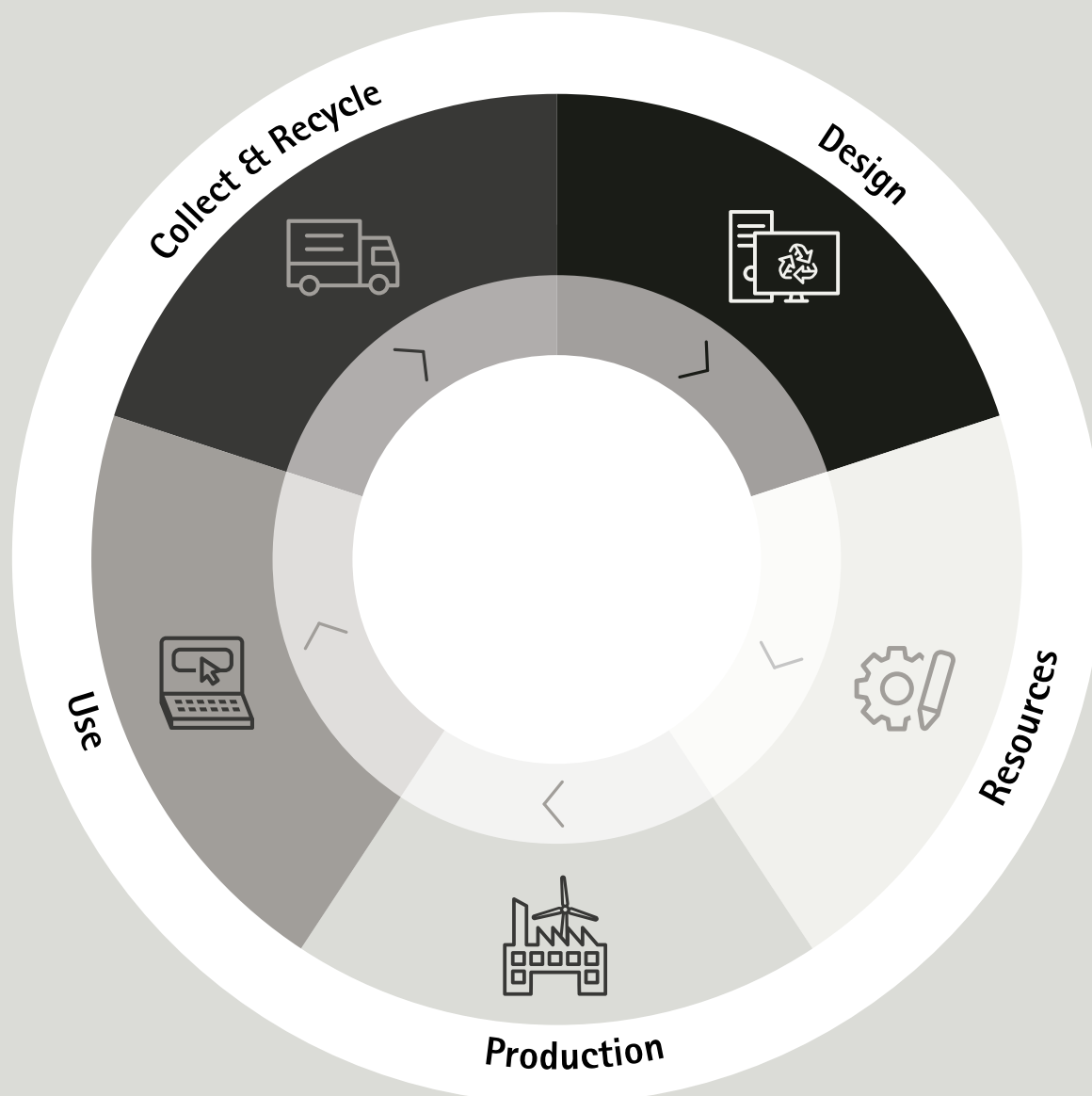
03.

Sustainability & end of life

As a global company, **RENOLIT** has contributed to sustainability - on an ecological, social and economic level. With regard to our core business, the production of high-quality polymer solutions and related products, we believe we have a responsibility towards people to preserve resources, reduce damaging emissions and prevent plastics from ending up in the environment. We aim to live up to this responsibility by committing to more circular business, fostering sustainable innovation, participating in numerous industry initiatives, and working for equity, health and well-being.

*We reduce damaging
emissions climate and
prevent plastics from ending
up in the environment.*





Circular economy prevents valuable resources such as plastics from becoming waste and polluting the environment.

THE CIRCULAR ECONOMY

Circular economy starts with product design and aims to use resources and energy as efficiently as possible, to extend the life of products, to enable repair or multiple uses, and to plan directly for recycling at the end of a product's life cycle so that the raw materials can be turned into new products. This prevents valuable resources such as plastic from becoming waste and polluting the environment. Wherever feasible, renewable raw materials should also be used instead of fossil raw materials to reduce damaging emissions.

Our self-recycling production process enables us to use all the raw materials to reduce waste to zero and decrease the environmental impact. We are also able to reuse PVC waste returned from our installers and reinsert it into our production cycle. Our internal sustainability department is constantly looking for solutions that enable us to reduce carbon footprint.



04.

Product

PRODUCT DATA

THICKNESS	2,00	mm
WIDTH	1,65	m
ROLL LENGTH	21,00	m
ROLL CLEAR AREA	34,65	m2
ROLL CLEAR WEIGHT	82,00	Kg

Decking material for wet floor areas, made with reinforced PVC membrane.

Slip-resistant, watertight, cushioned, and suitable for both indoor and outdoor use. Specifically designed for pool deck surface, locker rooms and changing rooms. Protected against staining, abrasion, and formulated with UV ray inhibitors. Contains flame retardant additives to meet or exceed requirements, and it is certified as BfS1. The composition of the membrane conforms to European legislation **(CMR content cat. 1 and 2 less than 0.1% - Sum of Pb, Cd, Hg, Cr (IV) and as less than 100 mg/kg).**

PRODUCT REFERENCE



35817801
LIGHT GREY



35817802
SAND



35817803
GRAY

05.

Technical Data

CHARACTERISTIC	VALUE	TEST METHOD
Composition specifications		
Mass per unit area	2,5 ± 0,2 kg/m ²	EN 1849-2
Reinforcement	3 x 3 PET 110 Tex	
Water absorption	≤ 1 % of mass	EN ISO 62 Method 1
CaCO ₃ content	≤ 3 % of mass	Atomic absorption spectrometry
Mean thickness	2,0 mm ± 5%	EN 1849-2
Mechanical specifications		
Tensile strength	≥ 1,1 KN/50 mm	EN 12311-2 A
Elongation at break	18 ± 3 %	EN 12311-2 A
Tear resistance	≥ 180 N	EN 12310-2
Dimensional stability	≤ 0,5 %	EN 1107-2
Resistance to foldability at low temperature	≤ -25 °C	EN 495-5
Peel resistance of joints	≥ 80 N/50mm	EN 12316-2
Watertightness	< 1 x 10 ⁻³ l/m ² -day according EN 16582-1	EN 14150
	Conforms	EN 13553
Slip resistance	α _{barefoot pedestrian} ≥ 24° (Class C)	EN 16165:2021 Annex A
	α _{barefoot pedestrian} ≥ 24° (Class C)	DIN 51097:1992
	27° < α _{work footwear} ≤ 35° (R 12)	DIN-EN 16165 Annex B // DIN 51130:2014
	μ > 0,30	EN 13893
	R _d > 45° (Class 3)	UNE-EN 16165 Annex C AN A // UNE 41901:2017 EX
	DCOF > 0,42	ANSI A326.3
Durability specifications		
Abrasion resistance	≥ 500 cycles, rating ≥ 3	EN ISO 5470-1
	> 25.000 cycles	ISO 4918:2016
Resistance to an artificial ageing of 19 GJ/m ² (6000 h)	≥ 4 under EN 20105-A02 NF	EN ISO 4892-2:2006. Method A cycle n°1
Resistance to action of microorganisms	Mass Loss ≤ 1 %	EN ISO 846:1997 / D
Resistance to streptovorticilium reticulum bacteria ATCC 25607	No Stains	EN ISO 846:1997 / C
Chlorine resistance	Rating ≥ 4	EN 15836 Annex C
Resistance to staining agents	Rating ≥ 4	EN 15836 Annex D
Security specifications		
Reaction to fire	Bfl-s1	EN 13501-1
Static Electrical Propensity	Antistatic	EN 1815
Thermal conductivity	0,121 W/m·K	EN 12664

06.

TEST AGAINST DIN 68861-1:2011

Stain tests have been conducted with a list of products, following the procedure outlined in standard DIN 68861-1:2011. According to these tests, direct contact between the SOLID floor sheet and organic solvents such as acetone and butyl ethyl acetate should be avoided. This also applies to THF and MEK, commonly used in pool environments. The following table presents the results obtained:

TEST	STANDARD	PRODUCT	RESULT
Chemical Resistance (Evaluation):	DIN 68861-1 (*)	Vinegar Citric acid (10%) Ammonia solution (10%) Ethanol (48%) Red wine Beer Cola soda Coffee Tea Blackcurrant juice Condensed milk Water Cleaning gasoline Acetone Butyl ethyl acetate Butter Olive oil Mustard Onion Disinfectant Pen ink Detergent Cleaning agent	5
Chemical Resistance (Group):			

(*) Contact time: 16 hours (1A)

After the designated time, the samples are washed and examined to determine any potential surface marks, according to the evaluation scale in the following table:

Chemical Resistance Evaluation Scale, DIN 68861-1:

RATING	DESCRIPTION
5	No visible changes.
4	Slight change in shine and/or color, only visible at certain angles .
3	Moderate change in shine and/or color. No changes in surface structure.
2	Significant change in shine and/or color, and/or slight changes in surface structure.
1	Surface structure changes: cracking, delamination, blistering.

07.

APPLICATION DETAILS

Our team of professionals will guide you through all phases of development, from planning to installation by our trusted network of Certified Installers.



USES IN-DEPTH

NEW BUILD

Perfect for use in new construction. Specially designed to comply with the most restrictive regulations and specifications. Specifically developed for commercial use.

FLOOR REPLACEMENT

Suitable for replacing existing synthetic floors, guaranteeing great durability, and excellent performance over time.

FLOOR OVERLAY

One of the strengths of this product is that it can be laid over an existing floor.

This installation procedure enables us to significantly reduce installation time and cost, as the existing floor does not have to be removed. The product is designed to be easily integrated with existing elements such as drains, grates, pool ladders and handrails.



For all technical information about the correct installation of the product, please refer to the Installation Manual. Every distributor and/or certified installer can request an installation manual from **RENOLIT** which is available in both paper and digital version.

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08.

DELIVERY CONDITIONS

Packaging and delivery

- Delivered in 21 meters long rolls.
- Single packaged roll
- Laid on wooden pallet.
- Maximum number of rolls per pallet: 4 units.



Transportation and Shelf Life

- Keep covered during transportation and store in its original packaging.
- Store horizontally.
- Store in a dry room at 15-25 °C
- Maximum number of stacked pallets: 2
- Keep protected from mechanical damage.
- Keep away from direct sunlight, rain, hail, and snow.
- Product does not expire if stored correctly.



Product Identification

- Label on the outside of each roll with all necessary information about product and production lot.

**RENOLIT ALKORPLAN
SOLID DECKING**

35817806

	2.0 mm		7513
	1650 mm		SAND
	21 m		

	Batch/Lot: W22358	Roll: 0001
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(01)08435704111790(3110)000021(10)W22358

CE

Renolit Ibérica S.A., Ctra. del Montnegre s/n
08470 Sant Celoni (Barcelona-Spain)
05
Nº CE: 0334-CPR-0204

EN 14841 : 2005
Reaction to fire (EN 13501-1)

Content of pentachlorophenol (EN 117-1)

Formaldehyde emission (EN 15918)

Waterproofness (EN 12582)

Slip Resistance (EN 13892)

Antistatic performance (EN 1815)

Thermal conductivity (EN 12564)

W22358

For product maintenance guidelines, please refer to the maintenance manual. Every distributor and/or certified installer can request a maintenance manual from **RENOLIT**, available in both paper and digital version.



09.

TEST AND CERTIFICATIONS

- CE Certification
- Abrasion resistance test
- Slip resistance test
- Fire resistance test
- Chemical resistance test
- Mechanical properties
- Weathering test
- Electrical resistance test
- C3 slip resistance certification
- EN 16165:2021
- DIN-EN 16165
- UNE-EN 16165
- EN 13893
- ANSI A326.3

All the documentation relating to the tests carried out on the product is available both in paper and digital format.

DECKING

Extended technical data sheet

