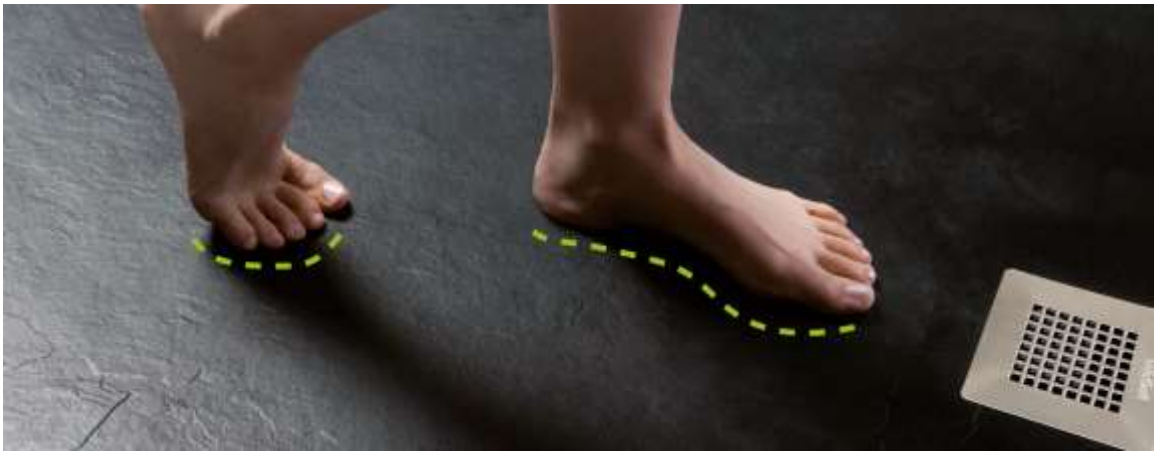
SolidSoft
Flexible Shower Tray

PRODUCT DATA SHEET



SolidSoft is based on a highly versatile material, featuring low-density polyurethane which, thanks to a high-pressure process, is endowed with a "skin" that responds exceptionally well to water. Its manufacture process is covered by a European Patent (EP 2 952 128 B1).

SolidSoft is a ready-to-install shower tray of 1.2" (30 mm) thickness molded to include a sloped floor falling into a unique drain hole as shown in the drawings below.

Since the shower tray is provided with elasticity, it comprises a galvanized iron reinforcement plate partially embedded on the flat base surface aligned in correspondence with the drainage channel of the top surface, which gives consistency to this section when having to thread on the underside the drain system.

SolidSoft shower trays are ultra-light (17 lb./sqm) and available in a wide range of sizes and colours, all of them with a slate finish effect. SolidSoft shower trays can be tailored to non-standard sizes and shapes.

Quality characteristics/Technical information

DIN51097: 1992 Testing of floor coverings – Determination of the anti-slip properties
UNE 41901: 2017 EX Determination of unpolished and polished slip/skid resistance value

The purpose of the test is to determine the value of slip resistance of the product when it is subjected to the conditions of tests specified in DIN51097: 1992. Performance **Class B** (ramp and barefoot operator) and **UNE 41901: 2017 EX** 'Determination of unpolished and polished slip/skid resistance value' (pendulum). Performance: **Class-2**.

AIDIMME TECHNOLOGY INSTITUTE Empa Materials Science and Technology Applus laboratories AICE jtc

ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

The closed molecular structure of SolidSoft prevents the generation and proliferation of germs and makes it very long-lasting. It has passed satisfactorily the tests required by the ISO 22196:2011.

UNE ISO 4586-2 P.32 Light resistance

This test method measures the ability of a product to retain its colour when exposed to a commercial xenon gas arc discharge light source having a frequency range approximating sunlight though window glass. Solid**Soft** shower trays are long-lasting, highly resistant to UV radiation, certified as **excellent (number 5)**.

EN 15186:2012 Method B Determination of scratch resistance

The determination of surface hardness of the product by the action of engraving generated by a tool equipped with a diamond tip of known geometry (defined by UNE EN 15186:2012) on which it is a known load.

The scratch resistance is the minimum load applied to the diamond tip that produces a change in the surface producing first visible scratches that may only be a change in the gloss. Solid**Soft** shower trays scratch resistance tests results (hardness in Newton N) are class 4 (4N) for black colour and class 5 (8N) for white colour. That class corresponds to a medium-high scratch resistance level, similar to porcelain and gelcoat.

UNE EN ISO 4586-2 Part 11 Determination of abrasion resistance

This test method measures the resistance to surface wear. A Taber rotary platform abrasion tester was used to perform accelerated wear on the surface of the shower tray.

Initial wear point IP (revolutions) for Solid**Soft** shower tray in black colour is 250 and 225 for white colour.
Wear resistance [IP+FP]/2 (revolutions] is respectively 450 and 350.Initial wear point (IP) is that were first shown clearly wear and final wear point (FP) is when it is exposed the 95% of the surface subjected to abrasion.

Swiss Standard SIA 181:2006 Sound insulation in building construction

The total value LH, tot [dB(A)] is a measure of quality for the obstruction of structure-borne noise (acoustic decoupling from the rest of the building). SolidSoft is a noise absorbing shower tray that accomplishes Swiss norm SIA 181:2006; $L_{H,\,tot}$ dB(A) obtained below minimal requirements 38 dB & equal to increased requirements 35 dB according Swiss standard.

Exposure to chemical substances

SolidSoft has surpassed the cleanability and durability tests established by the CE marking regulations. SolidSoft has been tested for resistance to exposure to chemical substances likely to be found in the bathroom, and has been classified compatible with the use of standard products for the bathroom. The chemical cleaners tested on SolidSoft shower trays and final assessments are shown in the next table:

Chemical cleaners *	Time exposure and assessment *			
	SolidSoft black tray		**SolidSoft** white tray	
	1h	24h	1h	24h
Chlorine bleach	No visible changes	Minor changes in gloss level and/or color, only visible from certain angles & moderate changes for acidic cleaning chemicals (e.g. Hydrocl. Acid) & acetone	Slight change in color for chlorinebased bleach (e.g. Cillit Bang Black) or acidic cleaning chemicals (e.g. Hydrocl. Acid)	
Hydrochloric Acid				
Cillit Bang Black Mould remover				
Viakal Anti-Limescale				
Acetone				
Deterdek Fila (Acid-reaction cleaner)	No visible changes	No visible changes	No visible changes	No visible changes
Hydrogen peroxide (3%)				
Ammonia				
Ethyl alcohol				
Mr. Clean Bathroom				
KH 7 anti-grease				
Vinegar				
Liquid detergent Luzil				
Floor cleaner (Ind. Catalá)				
Pronto Soapy				

* A few drops of chemical cleaner are deposited on the shower receptor sample and it is covered with a watch-glass during the exposure time.

UNE EN 424:2002 Resilient floor coverings- Determination of the effect of simulated movements of a furniture leg

The test specifies a method for determining the resistance of an installed resilient floor covering to the mechanical stress resulting from the movement of a furniture leg. This test has been carried out with the product. The type of furniture leg used is 3 with edge radius of 3 mm and the load applied 70.6 lb (32 Kg) and 110.2 lb (50 kg). The drag effect on the shower tray would be equivalent to the movement of four-legged furniture with a total load of 282.2 lb (128 kg) and 440.9 lb (200 kg) respectively.

The results shown that no visible changes occur when applied mechanical stress resulting from the movement of 282.2 lb (128 kg) of equivalent load and minor changes in gloss level and surface which then disappeared with 440.9 lb (200 kg) equivalent load. Solid**Soft** is shown also highly resistant to impacts. This test has been carried out with the aim to reproduce the Solid**Soft** shower tray resistance to a regular movement of a person on a wheelchair inside the shower space.

Resilience and memory

SolidSoft allows the installation of shower doors/screens in the same way as an acrylic or mineral resin shower tray. The resilience of the product when supporting weight is satisfactory. The deformation produced by the application of a linear load 40 kg (88 lb) at room temperature simulating the static load of 8 mm glass screen on the shower tray surface shows that the resilience of the product is high. The residual indentation after recovery is lower than 0.1 mm as shown in the table below.

TEST	RESULT	ASSESSMENT
Static load, 40 kg / m. Room temperature Indentation (mm)	0	--
Static load, 40 kg / m. Room temperature Residual indentation (mm) - After 24 hours of loading - After 48 hours of loading - After 72 hours of loading	 0,15 0,18 0,20	 -- -- Slight deformation
Recovery after static load Residual indentation (mm)	Lower than 0,1	Without visible changes

Green/Sustainability

Only "Green Guard" ingredients are used for an environmentally friendly production, such us the foaming agents. Thanks to its composition and performance, SolidSoft is an ultra-light (5 times lighter than conventional shower trays) with unbeatable resistance to impacts. SolidSoft has a low carbon footprint compared to conventional shower trays.

SolidSoft it is 100% recyclable at the end of its useful life. Several options for recycling and energy recovery are available (mainly automotive industry recycling cycle). Its simple maintenance is particularly ecological because SolidSoft only needs a damp cloth with a mild cleaner, being therefore particularly ecological.

SolidSoft is guaranteed for 10 years.