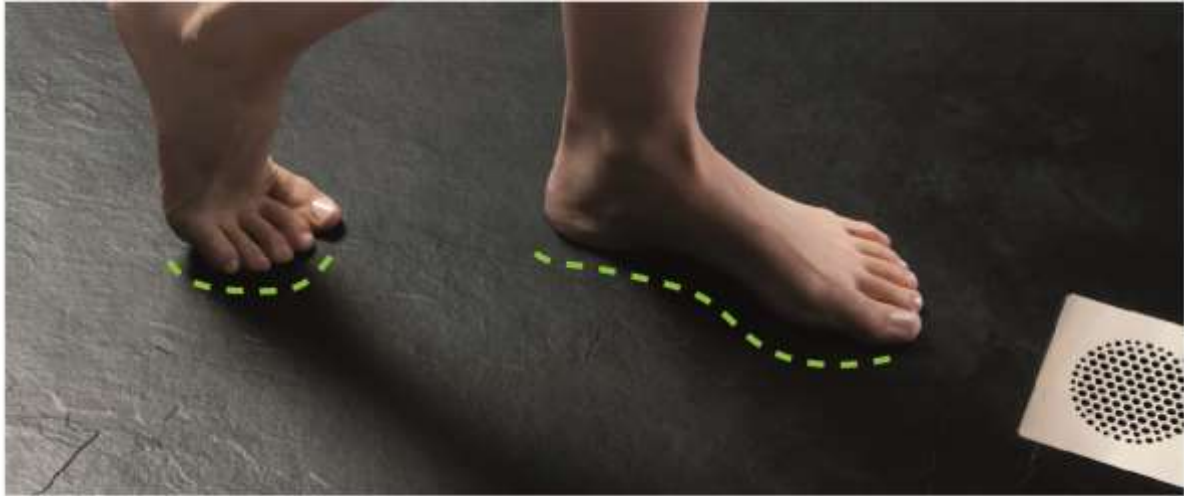


PRODUCT DATA SHEET



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. SolidSoft is a ready-to-install shower tray of 30 mm thickness molded to include a sloped floor and drain hole.

SolidSoft is a long-lasting product, anti-bacterial and highly resistant to UV radiation and against impacts. It is warm and silent; its surface muffles the sound of falling water. SolidSoft shower trays adapt to the pressure having a cushioning effect that protects joints. Its slip-resistant surface makes SolidSoft a seamless solution for creating easy access, comfortable and safety shower space.

SolidSoft shower trays are ultra-light (8 kg/sqm; 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 to fit your unique configuration, creating a luxurious custom shower environment and delivering an exclusive experience.

Quality characteristics/Technical information

DIN51097: 1992 Testing of floor coverings – Determination of the anti-slip properties
UNE ENV 12633:2003 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 ENV 12633:2003 ‘Determination of unpolished and polished slip/skid resistance value’ (pendulum). Performance: **Class-2**.

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 through window glass.

SolidSoft 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. SolidSoft 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 SolidSoft 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 $L_{H, tot}$ [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.

Fire behaviour: UNE EN 13501-1:07+ A1:2010 Reaction to fire tests for floorings

SolidSoft shower trays are made with an organic technical material based on polyurethane and formulated with fireproofing. Under special requirements, formulation can be adapted in order to guaranty fulfil of a strict fire behaviour regulation. European class according UNE EN 13501-1 that could be achieved under special formulation is C_{fl} for fire behaviour and S2 (medium smoke generation).

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		
	Black SolidSoft		White SolidSoft
	1 h	24 h	24 h
Chlorine bleach	No visible changes	Minor changes in gloss level and/or colour, only visible from certain angles & moderate changes for acidic cleaning chemicals (e.g. Hydrochl. Acid)	Moderate changes in colour for acidic cleaning chemicals (e.g. Hydrochloric Acid) or strong oxidants (e.g. Chlorine bleach)
Hydrochloric Acid			
Cillit Bang limescale&shine (Reckitt Benckiser)			
Viakal (Procter&Gamble)			
Acetone			
Hydrogen peroxide (3%)	No visible changes	No visible changes	
Acid-reaction cleaner Deterdek (FILA)			
Ammonia			
Ethyl alcohol			
Mr. Clean bathroom (Procter&Gamble)			
KH-7 anti-graisse			
Litonet cleaner (Litokol, SPA)			
Liquid detergent LUZIL (DYM,SL)			
Floor cleaner (Ind. Catala, S.A.)			
Pronto soapy (Johnson Wax Española, S.A)			

(*) 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. SolidSoft is shown also highly resistant to impacts. This test has been carried out with the aim to reproduce the SolidSoft 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 as 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.

