

SPECIFICATION SHEET NO:	PSA 159	DESCRIPTION:	SILENTFLOR PUR 3.70mm	DATE:	JUNE 2023
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ARCHITECTURAL SPECIFICATIONS / BOQ

SPECIFICATION:

Supply and install Silentflor flexible PVC sheet flooring in 3.7mm thickness heterogeneous in construction with a 0.65mm clear PVC wear layer flooring shall incorporate a specially formulated polyurethane reinforcement, to significantly reduce maintenance costs, in accordance with EN ISO 10874/EN 685, the in-use classification must be at least 23,34,42 (0.65mm wear layer) as described in EN ISO 10874/EN 685: i.e. domestic areas with intense use; commercial areas with very heavy traffic; and general light industrial areas, tested to EN ISO 10140-3/EN ISO 140-8, the product should achieve an impact sound reduction of 19dB, regarding the EN 13893 test for slip resistance, the flooring shall be classified DS, making it suitable for use in areas which are predominantly dry, but with occasional wet spillage. When tested to DIN 51130, the flooring shall be classified as R10, in respect of flame spread, the flooring shall have been fully tested to EN 13501-1 and certified as having Class Bfl-S1, achieving the criteria EN ISO 9239-1 $\geq 8\text{kW/m}^2$ and the mandatory requirement of EN ISO 11925-2 pass, tested to EN 423 (ASTM F 1303-99), the flooring should achieve excellent chemical resistance, in respect of light fastness, the flooring shall have been fully tested to EN 20105-B02 Method 3 as having a pass to ≥ 6 , the product must have been fully tested for abrasion resistance and meet the requirements of abrasion Group T, as defined in EN 651, in respect of residual indentation, the flooring shall have been fully tested to EN 433 as having a pass to $< 0.2\text{mm}$, the flooring must be available in 2.01 metre width, including a 0.01 metre selvage for on-site trimming, to minimise the number of joints, this product does not accumulate static charges above 2kV and is classified as 'antistatic' when tested to EN 1815

Colour:

Code:

INSTALLATION: (PLEASE NOTE: ALWAYS USE COMPATIBLE PRODUCTS FROM ONE SUPPLIER)

Please note the following: Due to extreme temperature fluctuations in South Africa and Africa, we DO NOT recommend the method of cold welding. Polyflor SA recommends hot welding of heterogeneous products.

This section is intended for Polyflor heterogeneous sheet vinyl ranges with transparent wear layer/print construction. In general, the installation procedure is the same as that detailed in Installation of Homogeneous and Safety vinyl sheet and reference should be made to this section for in-depth advice. Included below are details of how installation differs from homogeneous vinyl sheet, specifically in relation to alignment of adjacent sheets and welding options.

5.1 ALIGNMENT OF DECORATION

This type of floorcovering features a print layer with a regular, repeat decoration (e.g., wood plank). With wood effect designs, to maximise the final appearance of the installation and to ensure the decorative effect is not lost, it is important that care is taken to align the plank decoration of each adjacent sheet. All non-wood effect designs MUST be reverse laid.

Once the adjacent sheets are aligned, the seam should be cut using one of the following methods: Using a straight edge and keeping the utility knife upright, cut through both layers to ensure there is a tight seam. With wood effect designs, the edge of the printed plank can be used in the lengthwise direction as a guide. Once the seam is cut, discard the waste material, and check the final appearance.

Or

Using a straight edge and utility knife, cut off the selvage of the top sheet of the wood effect designs, using the edge of the printed plank in the lengthwise direction as the guide. Discard the waste strip. Then, using the cut edge as a guide, set a proprietary seam cutter to cut the lower sheet. Discard the waste strip and check the final appearance.

Once the seams have been dry cut, the vinyl sheets can be adhered to the substrate. Fold back all the sheets halfway and apply an adhesive approved by Polyflor, following the adhesive manufacturer's instructions and recommendations.

Working from the centre of the room, fold the sheets back into their original position, using a rolling motion to reduce the risk of trapping air. Using a 68kg roller starting in the width direction, roll the floor to expel any air bubbles and ensure good contact with the adhesive, substrate, and the back of the sheet vinyl.

Repeat in the lengthwise direction. Repeat the whole rolling process approximately 4 hours later.

5.2 WELDING THE SHEET

There are two methods of welding that are recommended for heterogeneous vinyl sheet floorcoverings with a transparent wear layer/print construction.

SPECIALIST FLOORING & WALL PROTECTION PARTNER

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5.2.1 Hot Welding

Once the adhesive is cured, normally after 24 hours, the seam can be grooved out. This can be done by using an **electric grooving machine**. The groove should not be deeper than 2/3rds thickness of the wear layer for the U groove.

- A. Remove all dust and debris prior to welding.
- B. Using an appropriate vinyl weld rod, test the weld fusion on a scrap piece of the material. Once you are happy with the heat settings and resultant weld, proceed to weld all the pre-grooved seams.
- C. On completion, and whilst the weld is still warm, carry out the first trim. This should be carried out using Mozart trimming knife.
- D. The final trim should be carried out once the weld has completely cooled (after 45 min) and should be done using the Mozart trimming knife.

Note: The welding technique described will provide a very strong mechanical weld. Should you require a much thinner line whilst at the same time providing a continuous surface, we suggest that in these instances, and using the technique described, only the wear layer be grooved out. This will result in a much narrower weld whilst still preventing ingress of dirt or moisture.

5.3 SUBFLOORS

In common with the installation of any type of flooring, the subfloor should not only be in sound condition and a moisture test must be conducted prior to installation, but also free of any contaminants, like oil, paint, preservative treatments or other forms of marking, such treatments, or other forms of marking, such as a permanent marker pen.

Similarly, no markings should be applied to the back of heterogeneous flooring.

MAINTENANCE: NOTE: NEVER USE A BLACK PAD TO SCRUB A PUR COATED FLOOR

To maximize efficiency of the cleaning system and minimize costs taking advantage of the Polyflor PUR-polyurethane reinforcement cross linked and UV cured finish, the following is recommended:

1. Post Installation:

- All loose dirt such as dust, grit, sand etc. must be removed, preferably by vacuuming the floor.
- The floor should then be cleaned using a neutral detergent, diluted as per the manufacturer's instructions, machine scrubbed and dirty cleaning solution wet vacuumed off the floor. (If a wet vacuum is not available, a mop and wringer system can be used).
- Adhesive can be removed with an appropriate detergent/solution such as Polyflor Powerclean if necessary. As a principle, aggressive solvents should be avoided as these may affect the PUR finish. More powerful detergents such as PRO-INOX (previously Resinox) from Industroclean can be used to remove persistent soiling which is not removed by the initial clean.
- The floor should then be rinsed until all traces of the neutral detergent are removed and wet vacuumed to remove all traces of water.

2. Daily

- Sweep/mop using a disposable cloth system such as the Masslinn system or vacuum to remove dust and grit; (Ensure that the vacuum is fitted with a Hepa filtration system in a healthcare environment)
- Spot or damp mop where required using a neutral detergent such as PROCLEAN.

3. Interim or Weekly Clean (Depending on conditions)

- To remove light scuff marks.

Dry buff with a +- 1000 rpm ultra-high speed burnisher using a clean 3M pink eraser or white pad.

- To remove heavy scuff marks:

Scrub with a low speed burnisher and neutral detergent, Proclean-diluted 100ml: 10L with cold water using the green Eco Brilliance pad.

4. Periodically (3-9 monthly) depending on conditions

- If required, scrub with a +- 165 rpm machine fitted with a red or blue pad using neutral detergent PROCLEAN diluted 20:1 with cold water as appropriate. Rinse well with clean water and dry buff with white pad to restore finish.

Please note that all PVC welding rod is not coated. We recommend the application of a layer of PUR sealer to all welds in a PUR sheeting floor to enhance maintenance procedures.

NB: to create a higher sheen on the floor, use a 1000 rpm machine using a clean white 3M pad or green Eco Brilliance Pad.

This program will keep maintenance costs to a minimum and requires no sealers.

Sufficient entrance or barrier matting is highly recommended and will greatly ease the maintenance programme.



Silentflor

Design. Let Acoustic Flooring

		Wood Lined Oak 993 w/ 993 LSP 222			Honey Oak 995 w/ 995 LSP 222			Brazed Pine 994Z w/ 994Z LSP 141
		Classic Lined Oak 995S w/ 995S LSP 947			Reclaimed Lined Oak 994 w/ 994 LSP 173			Appld Oak 996I w/ 996I LSP 191
		Smo Birch Oak 995S w/ 995S LSP 942			Alumini Blue 996 w/ 996 LSP 942			Silver Oak 995I w/ 995I LSP 274
		Light Grey Concrete 996S w/ 996S LSP 642			Cool Concrete 996 w/ 996 LSP 134			Light Industrial Concrete 9969 w/ 9969 LSP 231
		Warm Concrete 9967 w/ 9967 LSP 542			Dark Grey Concrete 9968 w/ 9968 LSP 124			Dark Industrial Concrete 9970 w/ 9970 LSP 291
		Blunt Orange 996I w/ 996I LSP 204			Medium 9975 w/ 9975 LSP 124			Storm 9973 w/ 9973 LSP 24
		Flame 9979 w/ 9979 LSP 403			Steel Blue 9977 w/ 9977 LSP 174			Zinc 9982 w/ 9982 LSP 272
		Mocha 9980 w/ 9980 LSP 207			Teal 9978 w/ 9978 LSP 174			Oxy 9983 w/ 9983 LSP 207
								Wenge 9976 w/ 9976 LSP 174
								Jett 9974 w/ 9974 LSP 204
								Wenge 9984 w/ 9984 LSP 204

HETEROGENEOUS



Decorative and other uses may vary from the samples shown. When making your colour selection, we recommend you take a large sample under the lighting you require.



Silentflor



Elegantly combining contemporary and decorative design with superior acoustic performance, the Silentflor range has been expertly created for a wide range of commercial interiors. A robust, beautifully designed collection that achieves 19dB impact sound reduction, Silentflor provides a perfect solution for installations in the healthcare, office, residential, retail and leisure sectors. An environmentally preferable flooring collection, Silentflor is also 100% recyclable and has achieved NF UPEC A+ certification.



	Gauge	EN 426/ISO 24346	3.7mm
	Wear Layer	EN 429/ISO 24340	0.65mm
	Roll Size	EN 426/ISO 24341	2m x 20m = 40m ²
	Total Weight	EN 430/ISO 23997	2550g/m ²
	General Performance	EN 651	Conforms
	Use Area	EN 685/ISO 30874	
	Acoustic Impact Sound Reduction	EN ISO 10140-3 (EN ISO 140-6) ISO 717-2	<19dB
	Resistance to Chemicals	EN 423/EN ISO 20987 ASTM F 1303-99	Excellent chemical resistance
	Reaction to Fire	EN 135011 ASTM E 648	Class Bfl-S1 Class 1
	Abrasion Resistance	EN 651 / EN ISO 10582	Group T / Type 1
	Slip Resistance*	EN 13893 AS 4586 DIN 51330	Class 05 (dry condition) R10 R10
	Indentation Residual	EN 433/ISO 24343-1	<0.2mm
	Dimensional Stability	EN 434/EN ISO 23999	<0.10%
	Flexibility	EN 435/EN ISO 24344	(Method A) Pass 20mm Ø
	Thermal Resistance	ISO 8302	0.0525m ² K/W
	Underfloor heating		Suitable max.27°C
	Electrical behaviour (body voltage)	EN 1815	<2kV Classified as 'antistatic'
	Light Fastness	ISO 105-B02	(Method 3) >6
	Caster Chair (continuous use)	EN 425/EN ISO 4916	Suitable
	Furniture Leg	EN 424	Conforms
	VOC Emissions	Indoor Air Comfort GOLD AgBB VOC test	Eurofins certified product Very low emissions
	Responsible Sourcing	BES 6001	Very Good
	Classification NF UPEC A+	NF 189	U4P3E2C2
	NF UPEC A+ Certification	NF 189	781/352-0011 781/352-0011 bis
<p>Environmentally Preferable Flooring - Polyflor Silentflor achieves BRE Global Environmental A+ rating (certificate no. ENP 415) in major use areas such as education and healthcare. Generic EN 15804 Environmental Product Declaration (EPD) available on request. It is 100% recyclable. Visit www.polyflor.com/environment.</p> <p>PUR - Polyflor Silentflor features a high quality, cross-linked polyurethane reinforcement, UV cured to provide a low cost, polish free maintenance regime for the lifetime of the flooring.</p> <p>Hygiene - All Polyflor commercial sheet vinyl ranges provide a continuous, impervious and hygienic flooring solution which can be confidently cleaned in accordance with recommended maintenance procedures and approved maintenance products. The implementation of an effective cleaning regime is the most important defence against infection.</p> <p>For information regarding handling and installation, adhesives, maintenance, applications, chemical resistance and product warranty, consult Polyflor Customer Technical Services on +44 (0)161 767 1912, or email tech@polyflor.com. *For safety flooring with sustainable wet slip resistance, refer to PolySafe ranges. The data presented is correct at the time of printing. For latest information, please visit our website polyflor.com. Decoration and shade may vary slightly from the samples shown.</p>			

