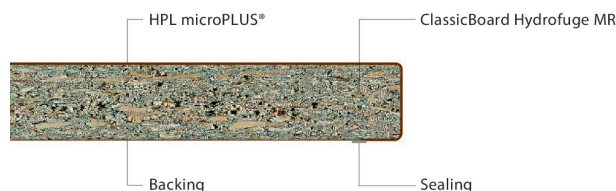


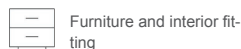
Technical data

Duropal Worktop Quadra microPLUS® Hydrofuge MR

Worktop consisting of a particleboard with reduced thickness swelling conforming to EN 312, decor side surfaced with Duropal HPL microPLUS® – an antimicrobial and antiviral surface finish (Sanitized® Silver), underside with water-repellent backing. The postforming front edge of the Quadra worktop has a radius of 3 mm, the rear edge is sealed with a protective edge. It is also available as a variant with both sides profiled.



Applications



Furniture and interior fitting

Properties



Variety of decors and / or textures



Easy care



Antimicrobial



Food harmless



Low swelling / moisture resistant

Certificates



Specification					Unit	Test standard
Nominal thickness	38	38	38	38	mm	
Width	600	650	900	1,200	mm	
Tolerance on thickness	± 0.4				mm	ISO 13894-1
Tolerance on length	± 5				mm	ISO 13894-1
Tolerance on width	± 5				mm	ISO 13894-1
Surface defects – HPL	max. 1 ¹⁾ max. 10 ²⁾				mm ² /m ² mm/m ²	EN 438-2
Straightness of edges	± 0.5				mm/m	ISO 13894-1
Squareness	max. 2				mm/m	ISO 13894-1
Flatness (length)	max. 2				mm/m	ISO 13894-1
Flatness (width)	max. 0.9	max. 1.1	max. 1.6	max. 2	mm mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to water vapour (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to surface wear – HPL	min. 150				cycles	EN 438-2
Resistance to scratching (smooth finishes) – HPL	min. 2				rating	EN 438-2
Resistance to scratching (textured finishes) – HPL	min. 3				rating	EN 438-2

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Duropal Worktop Quadra microPLUS® Hydrofuge MR

Specification					Unit	Test standard
Nominal thickness	38	38	38	38	mm	
Width	600	650	900	1,200	mm	
Resistance to impact (small diameter ball)	min. 15				N	ISO 13894-1
Stain resistance (groups 1 & 2) – HPL	min. 5				rating	EN 438-2
Stain resistance (group 3) – HPL	min. 4				rating	EN 438-2
Resistance to colour change (xenon arc light) – HPL	4 to 5 Grey Scale Grade					EN 438-2
Reaction to fire (Euroclass)	not classified					
Formaldehyde emission class	E1 E05 TSCA Title VI					EN 717-1
Mean density	580 - 540 ³⁾				kg/m ³	EN 323
Raw core materials	8.5 ³⁾				N/mm ²	EN 310
Modulus of elasticity (bending stiffness)	1,200 ³⁾				N/mm ²	EN 310
Internal bond	0.2 ³⁾				N/mm ²	EN 319
Surface soundness	0.8 ³⁾				N/mm ²	EN 311
Thickness swell (24 h)	12 ³⁾				%	EN 317
Durability – Water resistance	≤ 15				%	ISO 13894-1
Resistance to fixings (face)	≥ 1,500				N	ISO 13894-1
Resistance to fixings (edge)	≥ 500				N	ISO 13894-1
Bonding strength	≥ 0.6				N/mm ²	ISO 13894-1
Flexural tensile strength	≥ 0.6				N/mm ²	ISO 13894-1
Durability – Glue-line quality	≥ 3				rating	ISO 13894-1
Durability – Resistance to elevated temperature	no effect					ISO 13894-1

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Core material

Additional information

Product standard	<ul style="list-style-type: none"> in accordance with EN 13894-1
Areas of application	<ul style="list-style-type: none"> Duropal Worktops can be used wherever very high demands are made on surface resistance and durability. Thanks to their hygienic advantages, the classic areas of application are in modern kitchens and bathrooms, canteens and restaurants as well as doctors' surgeries, in laboratories and shop fitting, but also for industrial and commercial workplaces.
Core material	<ul style="list-style-type: none"> ClassicBoard Hydrofuge MR EN 312 standard urea resin bonded furniture panel with reduced thickness swell, suitable for non-load bearing use in humid conditions.
Product safety	<ul style="list-style-type: none"> This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered. The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011. The decorative surface and the core consists of paper layers, which are impregnated with thermosetting resins. The resins harden completely during the manufacturing process by heat and high-pressure. They form a stable, resistant and non-reactive material.
Antimicrobial effect	<ul style="list-style-type: none"> Surface with antimicrobial effect in 7 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196

Technical data

Duropol Worktop Quadra microPLUS® Hydrofuge MR

Antiviral effect	<ul style="list-style-type: none"> Surface with antiviral effect against enveloped viruses in 24 h for interior fit-out and finishes - Test Methodology ISO 21702:2019
Special	<ul style="list-style-type: none"> The coarser the structure and the lighter the decor, the greater the scratch resistance. The smoother the structure and the the darker the decor, the more sensitive it is to stains. Depending on the decor and surface texture, slightly different surface visual impressions can result between cut panels viewed from different angles. This is a result of the production methods and does not constitute a quality defect. Especially for large applications, we recommend paying attention to the colour and texture uniformity of the boards and cut products used when further processing and installing and that the production direction is taken into account. With intensive plain decors, especially in the red range, colour pigment wash-out may occur under certain circumstances. It is possible that colour pigments are not bound by the resin during the impregnation of the decor paper and are only deposited on the surface of the impregnate and are thus directly on the surface. If cleaning is then carried out, slight discolouration of the cleaning cloths can be observed. This is particularly the case when solvent-based cleaners are used. This is not a product defect. Sanitized® Silver is based on the natural effect of silver, embedded in a patented glass-ceramic. This additive is free of nanoparticles and is incorporated as a dispersion into the resin of our decor / overlay papers. Sanitized® Silver remains in the product and does not wash out. The effect is ensured over the whole life cycle of the product.
Note	<ul style="list-style-type: none"> FSC certification or PEFC certification available on request. FSC license code: FSC® C011773 PEFC license code: PEFC/04-32-0828
Colour and surface match	<ul style="list-style-type: none"> Decor, structure and core board all influence the final appearance of the end product. Due to the product-specific differences in production technologies, even identical decor/structure/core board combinations can result in slight optical and tactile deviations across different product groups and formats. Such deviations do not constitute a defect. The choice of surface structure in particular has a significant influence on the visual impression, the tactile perception as well as the technical characteristics of the product. Thus, the overall impression of a decor can change almost completely depending on the surface structure. Furthermore, mechanical influences on the product surface can lead to a higher contrast optical perception with dark decors. To ensure that you always achieve the best results with our products and to clarify any deviations in advance, we will be happy to advise you individually.

Further information on products, formats and decor/structure combinations is available at www.pfleiderer.com

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