

Wilsonart[®] HPL Laminate

TECHNICAL DATA SHEET FOR SURFACE FINISHES - **FA, SUR, ROC, CUIR**

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February 2021
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| DESCRIPTION

As one of the most innovative decorative surface materials on the market, Wilsonart[®] HPL Laminate (High-Pressure Laminate) offers long-lasting beauty and reliable performance at an affordable price.

Featuring a selection of solid colours and patterns in unique surface textures that closely mimic the appearance of leather, textured concrete, and stone.

Wilsonart[®] HPL Laminate are cost-effective and can be post-formed to a tight radius offering a modern appearance to countertops.

All Wilsonart[®] HPL laminate is manufactured with Sanitized[®] antibacterial treatment, eliminating 99.9% of harmful bacteria within 24 hours.

| APPLICATION

Recommended for interior use only, Wilsonart[®] HPL Laminate is suitable for horizontal and vertical use in commercial and residential applications. Idea for counter and tabletops, cabinets, doors and drawer fronts, wall panelling, shelving and more.

| SURFACE FINISHES

Wilsonart[®] HPL Laminate is stocked locally in several unique surface textures offered across a range of solid colours and patterned décors suitable for horizontal or vertical applications.

- # FA** Light satin finish with an extra fine grain and soft texture.
- # SUR** Fine grain satin textured finish that gives lustre and depth to decors.
- # ROC** Textured effect that evokes natural stone or beaten metal showcased by a matt aspect that enhances depth.
- # CUIR** A soft, matt surface with a grained aspect, strikingly realistic to leather.

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TECHNICAL DATA

Characteristics	Standard	Result
Standard Sheet Size	-	3070 x 1320mm
Nominal Thickness	-	0.8mm
Thickness Tolerance	EN 438-2-5	± 0.10mm
Length and width tolerance	EN 438-2-6	- 0 / + 10mm
Straightness tolerance	EN 438-2-7	≤ 1.5mm/m
Flatness tolerance	EN 438-2-9	60mm/m
Dimensional Stability <ul style="list-style-type: none"> • Machine Direction • Cross Direction 	EN 438-2-17	≤ 0.55% ≤ 1.05%
Boiling water Resistance	EN 438-2-12	Class ^(a) 4
Impact resistance (small diameter ball) (5 mm with hammer)	EN 438-2-20	≥ 20N
Impact resistance of a 324 g ball (drop height for ≤ 10 mm diameter imprint)	EN 438-2-21	≥ 800mm
Resistance to cracking	EN 438-2-23	Class ^(a) 4
Minimum bending radius (convex and concave)		10cm
Surface defects – spots Surface defects – linea	EN 438-2-4	≤ 1 mm ² /m ² ≤ 10 mm ² /m ²
Abrasion resistance (initial point)	EN 438-2-10	≥ 150 - 400 revolutions

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TECHNICAL DATA - Continued

Characteristics	Standard	Result
Resistance to steam	EN 438-2-14	Class ^(a) 4
Dry heat resistance 20 mins 180 °C	EN 438-2-16	Class ^(a) 4
Resistance to humidity 100°C	EN 12721	Class ^(a) 4
Resistance to cracking	EN 438-2-23	Class ^(a) 4
Scratch resistance	EN 438-2-25	Grade ^(b) 3
Stain Resistance <ul style="list-style-type: none">• Groups 1 & 2• Group 3	EN 438-2-26	Class ^(a) 5 Class ^(a) 4
Colour fastness under artificial light	EN 438-2-27	4 à 5 Greyscale
Resistance to cigarette burns	EN 438-2-30	Class ^(a) 3
Minimum Postforming radius	EN 438-2-31 ou 32	≥ 0.8mm
Blister resistance	EN 438-2-33 ou 34	≥ 15 seconds

(a) Class: 1 = Surface damage. 2 = Severe appearance alteration. 3 = Moderate change. 4 = Slight change visible from certain angles. 5 = No change.

(b) Grade: 2 = Continuous scratches at 2N. 3 = Continuous scratches at 4N.

FIRE PERFORMANCE

Group Classification Number AS/NZS 3837-1998 Group 1
Average Specific Extinction Area 10.3 m²/kg

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HEALTH & ENVIRONMENTAL DATA

Greenguard Gold Certification

Food safe – EN13120-1 Yes

Antibacterial properties – 24hr exposure >99.9% reduction

- Escherichia coli
- Pseudomonas aeruginosa
- Klebsiella pneumoniae
- Salmonella enteritidis
- Listeria monocytogenes
- Staphylococcus aureus
- Staphylococcus aureus MRSA

CARE AND MAINTENANCE

Wilsonart® HPL Laminate requires minimal maintenance is easy to clean.

For everyday cleaning, simply wipe the surface with a soft, damp cloth and warm water with a mild detergent and wipe dry. For stubborn stains, use an all-purpose cleaner.

Whilst laminate is hard wearing, sharp objects such as knives and blades will damage your laminate surface, reduce its longevity, look and performance. It is strongly recommended that you do not cut directly onto the surface. In order to prolong the look and life of your benchtop use a chopping board or cutting matt.

Exposure to excessive heat will damage the laminate surface. It is not recommended to place hot cookware from the stove or oven directly onto the laminate without the protection of a heat proof matt or trivet.

FABRICATION & ASSEMBLY RECOMMENDATIONS

Laminate must be bonded to a substrate of reliable quality, such as particleboard, medium density fibreboard or plywood with one “A” face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic types of laminate may not be used as structural members.

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| FABRICATION & ASSEMBLY RECOMMENDATIONS - Continued

Bond with adhesives and follow the techniques recommended by the adhesive manufacturer. Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions. To avoid stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of 3.175mm radius and all edges should be routed smooth.

Drill oversized holes for screws or bolts. Screws or bolts should be slightly countersunk into the face side of a laminate-clad substrate.

Take care to ensure an appropriate acclimation between the laminate and the substrate prior to fabrication. The face and backing laminates and the substrate should be conditioned in the same environment for 48 hours before fabrication.

Recommended conditioning temperature is about 24°C. Laminates should be conditioned at 45% to 55% relative humidity. With postforming machinery, Wilsonart laminate postform at a nominal sheet temperature range of 163°C to 170°C in 20 ± 5 seconds.

Carbide-tipped saw and router blades should be used for cutting. High tool speed and low feed speed are advisable. Cutting blades should be kept sharp. Use a hold-down to prevent any vibration.

| CONTACT

For further information on this product contact:

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