

DECLARATION OF PERFORMANCE 1/2021

1. Unique trade name:

worktops

2. Intended areas of applications:

In buildings newly built and renovated, inside the premises with the exception of those constantly exposed on water or steam (such as baths or pools).

3. Manufacturer:

Contact: Wallmann A/S

4. Assessment and verification system:

Wares and blanks are consistent with EN-438 and EN-312.

Worktops are consistent with Certificate of Health Quality No. B-BZ-6071-0102/18/C and Formaldehyde Opinion No. A2002-BOS/2018 also Higienic Certificate No. 384/322/391/2017

5. Declared performance:

LAMINATE CPL

Property	Test method	Property or attribute	Unit	Values
Thickness tolerance	EN 438-2.5	thickness (t)	mm	0,4 ±0,08 0,5 ≤ t ≤ 0,8 ±0,10 where t: is nominal
Resistance to surface wear	EN 438-2.10	wear resistance	revs	IP ≥ 150 A ≥ 350
Resistance to impact stress with a small ball bearing	EN 438-2.20	Spring force	N	≥ 15
Resistance to dry heat (180 °C)	EN 438-2.16	appearance	rating	≥ 4
Resistance to scratching	EN 438-2.25	force	rating	≥ 3
Resistance to staining	EN 438-2.26	app.groups 1-2 appear.groups 3	rating	5 ≥ 4
Resistance to steam	EN 438-2.14	appearance	rating	≥ 4
Density	ISO 1183	density	g/cm ³	600-720
Lightfastness (Xenon arc lamp)	EN 438-2.27	Contrast	Gray scale	4-5
Swelling behaviour	DIN EN 317	appearance	-	24h max. 1%

				2h max. 4%
Bending strength	DIN EN 310	-	N/mm ²	>9,0
Internal bond	DIN EN 319	-	N/mm ²	> 0,2
Surface soundness*	DIN EN 311	-	N/mm ²	≥ 1,0

*- values might be lower for full pearlescent decors and therefore these decors are not recommended for horizontal applications.

LAMINATE HPL

Property	Test method	Property or attribute	Unit	Values
Thickness tolerance	EN 438-2.5	thickness (t)	mm	0,5 ≤ t ≤ 1,0 ±0,10 1,0 ≤ t ≤ 2,0 ±0,15 where t: is nominal
Flatness	EN 438-2.9	maximum deviation	mm/lm	60
Resistance to surface wear	EN 438-2.10	wear resistance	revs	IP ≥ 150 A ≥ 350
Resistance to immersion in boiling water	EN 438-2.12	appearance gloss finish appearance other finishes	rating	≥ 3 ≥ 4
Resistance to dry heat (180 °C)	EN 438-2.16	Appearance gloss finish appearance other finishes	rating	≥ 3 ≥ 4
Resistance to wet heat (100 °C)	EN 12721	Appearance gloss finish appearance other finishes	rating	≥ 3 ≥ 4
Dimensional stability at elevated temperature	EN 438-2.17	cumulative dimensional change	% long. % transv.	≤ 0,55 ≤ 1,05
Resistance to impact by small diameter ball	EN 438-2.20	Spring force	N	≥20
Resistance to cracking	EN 438-2.23	appearance	rating	≥4
Resistance to scratching *	EN 438-2.25	force	rating	≥3
Resistance to staining	EN 438-2.26	app.groups 1-2 appear.groups 3	rating	5 ≥ 4
Resistance to steam	EN 438-2.14	appearance gloss finish appearance other finishes	rating	≥ 3 ≥ 4
Resistance to blistering	EN 438-2.34	Time	sec.	t < 0.8 mm: ≥ 10 t ≥ 0.8 mm: ≥ 15
Density	ISO 1183	density	g/cm ³	≥1.40
Lightfastness	EN 438-2.27	contrast	grey scale rating	≥4

* HPL glossy structure with protective foil

LAMINATE AFX

Property	Test method	Property or attribute	Unit	Values
Thickness tolerance	EN 438-3.6,3	thickness (t)	mm	0,65-0,70
Flatness	EN 438-3.6,3	maximum deviation	mm/lm	50-60
Resistance to surface wear	EN 438-2.10	wear resistance	Revs (min)	350
Resistance to immersion in boiling water	EN 438-2.12	appearance	rating	≥4
Resistance to dry heat (160 °C)	EN 438-2.16	appearance	rating	≥4
Resistance to wet heat (100 °C)	EN 438-2.18	appearance	rating	≥4
Dimensional stability at elevated temperature	EN 438-2.17	Machnine direction	% (max)	≤ 0,32
		Cross direction	% (max)	≤ 0,50
Resistance to impact by small diameter ball	EN 438-2.20	Spring force	N	≥ 25
Resistance to scratching	EN 438-2.25	force	rating	≥ 3
Resistance to staining	EN 438-2.26	app.groups 1-2	rating	5
		appear.groups 3		≥ 4
Resistance to steam	EN 438-2.14	appearance	rating	≥ 4
Density	ISO 1183-1	density	g/cm3	≥1.40
Lightfastness (Resistant to color change in Xenon-arc)	EN 438-2.27	contrast	grey scale rating	≥ 5

* AFX structure with protective foil

* AFX laminates only for square edge uses (no postforming possibility)

CHIPBOARD

P2 according to EN-312 standard

Property	Requirement	Unit	Test Method
Thickness tolerance	+/- 0,3	mm	EN 324-1
Length and width	±5	mm	EN 324-1
Tolerance on the mean density within a board	±10	%	EN 323
Internal bond	0,20 - 0,45	N/mm ²	EN 319
Bending strength	7 - 13	N/mm ²	EN 310
Modulus of elasticity in	1050 - 1950	N/mm ²	EN 310

bending			
Formaldehyde content	E1	mg/100g	EN 120
Formaldehyde release	E1	mg/m ³	EN 717-1
Adhesion	>0,8	N/mm ²	EN 311
Rectilinearity	maximum 1,5	mm/m	EN 324-2
Right angle	≤ 2	mm/m	EN 324

* The values are characterized by a moisture content in the material corresponding to a relative humidity of 65% and a temperature of 20°C

P3 according to EN-312 standard

Property	Requirement	Unit	Test Method
Thickness tolerance	+/- 0,3	mm	EN 324-1
Length and width	±5	mm	EN 324-1
Tolerance on the mean density within a board	±10	%	EN 323
Internal bond	0,25 - 0,50	N/mm ²	EN 319
Bending strength	7,5 - 15	N/mm ²	EN 310
Modulus of elasticity in bending	1350 - 2050	N/mm ²	EN 310
Formaldehyde content	E1	mg/100g	EN 120
Formaldehyde release	E1	mg/m ³	EN 717-1
Swelling in thickness, 24h	12 - 25	%	EN 317
Rectilinearity	maximum 1,5	mm/m	EN 324-2
Right angle	≤ 2	mm/m	EN 324

* The values for bending properties, internal bond and swelling in thickness are characterized by a moisture content in the material (before treatment in the case of swelling in thickness) and other parameters in the table corresponding to a relative humidity of 65% and a temperature of 20°C

ADHESIVES

All adhesives used are consistent with EN 204.

Position and signature