VIR
VAULT

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PRODUCT DATA SHEET

VIR VAULT (CGS / CGF)

DESCRIPTON

VIR VAULT is a Compact Laminate designed especially for Interiors (Cubicles, partitions, lockers) available for both General purpose as well as Flame retardants. Vaults are constructed by infusing multiple layers of Phenolic Kraft papers and Décor paper with Melamine resin and protected by melamine impregnated Overlay film. This compact laminate is manufactured in compliance with EN-438-4, EN-13501-1.

Description: VIR VAULT
Laminate Grade 1: CGS (Compact General Purpose Standard)
Laminate Grade 2: CGF (Compact General Purpose Fire retardant)
Sizes: 1830x1830 mm, 1830x2165 mm, 1830x3660 mm, 1830x4330 mm
Thickness: 10 mm – 18 mm

APPLICATION / APPLICATION AREA

As Cubicles, Partitions, Lockers for Office, Hotel, Airport, Public Space and Residence

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FIRE PERFORMANCE (ON DEMAND)

VAULT of **CGF grade** are specially engineered to comply with **EN 13501-1** standards, ensuring exceptional resistance to fire. All fire performance tests are conducted in accordance with **EN 13823:2020 + A1:2022.**

Reaction to Fire Classification: Classified as **Class B**, demonstrating excellent fire resistance with a Fire Growth Rate **(FIGRA)** of only **16.15 W/s** and a Total Heat Release **($THR_{600}s$)** of **4.42 MJ**.

Smoke Development: Rated **s1**, indicating minimal smoke emission. The Smoke Growth Rate **(SMOGRA)** is nil, and the Total Smoke Production **($TSP_{600}s$)** is just **29.11 m^2.**

Flaming Droplets / Particles: Rated **d0**, confirming no flaming droplets or particles ≥10 seconds within the first 600 seconds of testing.

Parameter	Requirements of B-s1,d0 Class of EN 13501- 1:2018	Observed Results	Conformity (Confirms / Do not Confirms)
A. Single Burning Item Test			
FIGRA0.2MJ (W/s)	≤120 W/s	16.15	Confirms
$THR_{600}s$ (MJ)	≤7.5 MJ	4.42	Confirms
SMOGRA (m^2/s^2)	≤30 m^2/s^2	0	Confirms
$TSP_{600}s$	≤50 m^2	29.11	Confirms
LFS to edge	No LFS to edge	No	Confirms
Flaming Droplet / Particles ≥10s within the first 600 seconds	No	No	Confirms
B. Ignitability Test			
Flame to reach 150mm Mark	No Flame should reach 150mm mark	No Flame reached 150mm mark	Confirms

REACTION TO FIRE CLASSIFICATION: B-s1, d0

IGNITO FIRE TESTING LAB
I250326001-1

TÜV SÜD
EN 13823:2010
EN ISO 11925-2:2010

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QUALITY CHARACTERISTICS / TECHNICAL DATA

VAULT of both General purpose and Flame- retardant (CGS/CGF) are classified under EN-438-4 and tested in accordance to EN-438-2 to verify their quality, durability, and safety.

PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-4)
Resistance to Surface wear	EN 438-2.10	Wear Resistance - Initial point	Revolutions	Unicolours - ≥ 150 Printed Décor - ≥ 125
Resistance to immersin in boiling water	EN 438-2.12	Mass increase - 2 ≤ T < 5 mm	%	CGS - ≤ 5, CGF - ≤ 7
		Mass increases - T≥5 mm	%	CGS - ≤ 2, CGF - ≤ 3
		Thicness increase - 2 ≤ T < 5 mm	Rating	CGS - ≤ 6, CGF - ≤ 9
		Thickness increases - T≥5 mm	Rating	CGS - ≤ 7, CGF - ≤ 6
		Appearcne - Gloss finish	Rating	≥3
		Appearcne - Other finish	Rating	≥4
Resistance to water vapour	EN 438-2.14	Appearcne - Gloss finish	Rating	≥3
		Appearcne - Other finish	Rating	≥4
Resistance to dry heat (160°)	EN 438-2.16	Appearcne - Gloss finish	Rating	≥3
		Appearcne - Other finish	Rating	≥4
Dimensional stability at elevated temperatures	EN 438-2.17	Cumulative dimensional change - 2 ≤ T 5 mm	L %	≤0.40
			T %	≤0.80
		Cumulative dimensional change - T ≥ 5 mm	L %	≤0.30
			T %	≤0.60
Resistance to impact with large diameter ball	EN 438-2.21	Indent. Dia. 10mm 2 ≤ T < 6 mm - Drop	mm	≥1400
		Indent. Dia. 10mm T ≥ 6 mm - Drop height	mm	≥1800
Resistance to Crazing	EN 438-2.24	Appearance	Rating	≥4
Resistance to Scratching	EN 438-2.25	Appearance - Smooth Finishes	Rating	≥2
		Appearance - Textured Finishes	Rating	≥3
Resistance to Staining	EN 438-2.26	Appearance - Group 1 &2	Rating	≥5
		Appearance - Gropu 3	Rating	≥4
Light Fastness (Xenon arc)	EN 438-2.27	Contrast	Grey scale rating	4 to 5
Flexural modulus	EN ISO 178	Stress	Mpa	≥ 9000
Flexural strength	EN ISO 178	Stress	Mpa	≥ 80
Density	EN ISO1183	Density	gm/cm³	≥ 1.35

EPH ®
SUCCESS BY QUALITY

EN 438-2
Test Report: 272404/1

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SURFACE FINISH

The surface finish test is conducted in accordance with EN 13722 to evaluate the angle of light reflection for each surface finish. The results are expressed in gloss units (GU), providing a precise measure of the reflective characteristics.

SURFACE	MAXIMUM DEVIATION	GLOSS UNITS
High Gloss Surface	± 15	> 70
Semi-Gloss Surface	± 10	30 - 70
Suede Surface	± 5	10 - 30
Matt surface	± 3	< 10

TOLERANCES

NOMINAL THICKNESS (mm)	THICKNESS TOLERANCE (mm)	LENGTH TOLERANCE (mm)	WIDTH TOLERANCE (mm)
2-3	±0.2	+10/-0	+10/-0
3-5	±0.3	+10/-0	+10/-0
5-8	±0.4	+10/-0	+10/-0
8-12	±0.5	+10/-0	+10/-0
12-16	±0.6	+10/-0	+10/-0
16-20	±0.7	+10/-0	+10/-0
20-25	±0.8	+10/-0	+10/-0

FSC www.fsc.org FSC® A000523

PEFC PEFC/01-44-50

EPH SUCCESS BY QUALITY EN 438-2

ISOQAR REGISTERED ISO 9001 : 2015 ISO 14001 : 2015 ISO 45001 : 2018

TÜV SÜD EN 13823:2010 EN ISO 11925-2:2010

NEMA National Electrical Manufacturers Association

European Standard EN 438