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Technical data sheet

EGGER Laminates AC4



Description

EGGER Laminates AC4 are decorative laminates based on curable resins and are characterized by their high abrasion resistance. They have a multi-layered structure and consist of a impregnated overlay and decorative paper as well as one or more core layers impregnated with phenolic resin.

Description:	EGGER Laminates AC4
Type of material[1)]:	**VGS** or **HGS** according to EN 438
Abrasion class:	**AC4** according to EN 438-5

[1)] depending on the nominal thickness

Availability

EGGER Laminates AC4 are available in decors of the **EGGER Decorative Collection** and the **EGGER Industry Pool**. Production with a minimum order quantity of 260 m² per version is always made to order – see section “Form of delivery”.

Technical data

In accordance with EN 438, EGGER Laminates AC4, depending on the nominal thickness, are classified as a **VGS** (**V**ertical **G**eneral-purpose **S**tandard) or **HGS** (**H**orizontal **G**eneral-purpose **S**tandard). This means that the laminate can be used for vertical or horizontal applications without postforming.

Property	Test standard	Unit or feature	Value
Resistance to surface wear*	EN 438-2	Revolutions (min.) Initial point	 ≥ 4,000
Resistance to impact by small diameter ball*	EN 438-2	N (min.) 1.00 mm ≤ t ≤ 1.20 mm 0.80 mm 0.60 mm 0.40 mm ≤ t ≤ 0.50 mm 0.15 mm	 ≥ 25 ≥ 20 ≥ 15 < 15 < 10
Resistance to scratching*	EN 438-2	Rating (min) smooth finishes textured finishes	 2 3

Property	Test standard	Unit or feature	Value
Thickness	EN 438-2	mm 1.00 mm < t < 1.20 mm 0.40 mm ≤ t ≤ 1.00 mm 0.15 mm	 ± 0.15 ± 0.10 + 0.10 / - 0.05
Length[1)] and width[2)]	EN 438-2	mm	+ 10 / - 0
Flatness[3)]	EN 438-2	mm/m (max.)	60
Resistance to water vapour	EN 438-2	Rating (min)	4
Resistance to dry heat (160 °C)	EN 438-2	Rating (min)	4
Dimensional stability at elevated temperatures	EN 438-2	% max. L^a *(HGS)* T^b *(HGS)* L^a *(VGS)* T^b *(VGS)*	 0.55 1.05 0.75 1.25
Resistance to wet heat (100 °C)	EN 438-2	Rating (min)	4
Resistance to staining	EN 438-2	Rating (min.) Groups 1 and 2 Group 3	 5 4
Lightfastness (Xenon arc lamp)	EN 438-2	Grey scale rating	4 to 5

* Property is relevant for the classification of the material type.

1) Length tolerance only applies to laminate supplied in sheets, not for rolls.

2) Tolerances for cut-to-size panels shall be agreed between EGGER and purchaser.

3) Provided that the laminate is stored in the manner and conditions recommended by EGGER.

L^a = in the longitudinal direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).
T^b = in the cross-longitudinal direction of the fibrous sheet material (at right angles to direction L).

Form of delivery

Laminates AC4 can be supplied as rolls or cut to size, depending on the laminate thickness.
Our order-related delivery options in overview:

Options EGGER Laminates AC4	
Nominal thickness range	0.15; 0.40; 0.50; 0.60; 0.80; 1.00 and 1.20 mm
Nominal thickness – sheet form	≥ 0.40 mm to 1.20 mm
Nominal thickness – roll format	≥ 0.15 mm to 0.60 mm
Maximum length – sheet form	5,600 mm; 50 mm grid
Minimum length – sheet form	800 mm; 50 mm grid
Roll length	200 and 400 m
Maximum width[1)]	1,310 mm
Individual width	on request; 10 mm grid
Core diameter	150 mm
Minimum quantity	260 m²

1) maximum width 1,300 mm in nominal thickness 0.15 mm

Technical application note

According to EN ISO 10874 – Resilient, textile and laminate floor coverings, EGGER Laminates AC4 achieve class 32, which allows their use in commercial areas with medium intensity of use (classrooms, small offices, hotel boutiques).
For the use of floor coverings, anti-slip properties are often required. Out of the EGGER texture range, the following textured surfaces have been tested in accordance with DIN 51130 and ASR A1.5/1.2 – Floors, and are available as laminate quality AC4:

Texture	Anti-slip class DIN 51130[1] / ASR[2] A1,5/1.2 Floors
ST16	R9
ST19	R10
ST22	R9
ST76	R10
ST87	R10

[1] DIN 51130, Testing of floor coverings - Determination of the anti-slip property
[2] Technical rules for workplaces A1,5/1.2 Floors

The high abrasion resistance requires the use of a special overlay, which influences the decor effect. A decor and/or colour match between Eurodekor and EGGER Laminates cannot be guaranteed. For a perfect flatness of the Laminate Bonded Board, AC4 laminates must be used on the front and back side. EGGER Laminates AC4 are not intended for use on surfaces that come into direct contact with food.

Care and cleaning recommendation

EGGER Laminates AC4 do not require any special care due to their resistant and hygienic, dense surfaces. The surfaces are generally easy to clean. This also applies to textured surfaces. Do not use sanitary cleaners or detergents with abrasive components, as using such cleaners may lead to changes in the degree of gloss and/or scratch the material.

For detailed information, please refer to the leaflet "Cleaning and care recommendations for EGGER product surfaces".

Additional documents / Product information

You will find further information in the following documents:

- Processing Instructions “EGGER Laminates“
- Technical leaflet “Resistance to chemicals EGGER Laminates”
- Technical leaflet “Cleaning and care recommendations for EGGER product surfaces“

Provisional note:
This technical data sheet has been carefully drawn up to the best of our knowledge. The information provided is based on practical experience, in-house testing and reflects our current level of knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or its suitability for specific applications. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of EGGER Laminates AC4, as well as from changes to standards and public law documents. The contents of this technical data sheet should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.