

Technical data sheet

EGGER Laminates



Description

EGGER Laminates are decorative laminates based on curable resins. They have a multi-layered structure and consist of impregnated decorative paper as well as one or more impregnated core layers.

Description: EGGER Laminates
 Type of material: **HGP** (Horizontal General-Purpose Postforming) according to EN 438-3
 Certification: **MED** (Marine Equipment Directive) for nominal thicknesses 0.60 and 0.80 mm

Availability

EGGER Laminates are part of the **EGGER Decorative Collection** in the nominal thickness of 0.80 mm. They are available in selected decors from stock and in quantities of one, according to the country-specific delivery lists.

Further decors are produced with a minimum order quantity of 260 m² per version and always made to order – see section "Delivery form".

Technical data

In accordance with the EN 438-3, EGGER Laminates are classified as a **HGP** (Horizontal General-purpose Postforming). This means that the laminate can be used for horizontal applications with postforming requirements. Laminates with pearlescent decor are classified as ATP (see technical leaflet "EGGER Laminates with pearlescent decor").

Property	Test standard	Unit or feature	Value
Resistance to surface wear*	EN 438-2	Revolutions (min.) Initial point	≥ 150
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	≥ 25 ≥ 20 ≥ 15 < 15
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 ± 0.10
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 T ^b	0.55 1.05
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
Formability	EN 438-2	mm L ^a T ^b	≤ 10 x nominal thickness ≤ 20 x nominal thickness

* 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).

L^a = axis of bending parallel to the fibre direction (usually parallel to the direction of sanding).

T^b = axis of bending at right angles to the fibre direction.

Form of delivery

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

Options EGGER Laminates	
Nominal thickness range	0.40; 0.50; 0.60 ¹⁾ ; 0.80 ¹⁾ ; 1.00 and 1.20 mm
Nominal thickness – sheet form	≥ 0.40 mm to 1.20 mm
Nominal thickness – roll format	≥ 0.40 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	1,310 mm
Individual width	on request; 10 mm grid
Core diameter	150 mm
Minimum quantity	260 m ²

¹⁾ MED certified.

Technical application note

Slight colour deviations in the same product are possible due to tolerances in the primary materials used. Components that are used next to each other should therefore be checked for colour uniformity. A deviation in colour and surface between the EGGER reference colour sample and the customer's test piece is permissible in accordance with EN 438.

Due to the production that differs by product, colour and surface differences can also occur between different products (e.g. faced board, laminate, edging) with the same decor-texture combination. For an accurate representation of the colour, order a sample in the relevant product.

Reaction to fire

To avoid unnecessary tests, building materials with known fire behaviour and defined material properties can be classified without further testing (**CWFT – Classification without further testing**). According to EN 438-7, wood-based panels laminated with EGGER Laminate can be classified as **D-s2,d0** according to EN13501-1 under the conditions described in the table below.

Product	Description	Minimum density	Minimum thickness overall	Class EN 13501-1
Laminate composite panels with wood based substrates	Composite panels comprising non-flame-retardant grade laminate meeting the requirements of EN 438-3, adhesively bonded to both sides on non-flame-retardant grade wood based core of minimum thickness 12 mm complying with EN 13986, using PVAc or thermosetting adhesive at an application rate of 60 g/m ² to 120 g/m ² .	wood based core density 600 kg/m ³	12 mm wood based core with laminate ≥ 0.5 mm bonded to both sides	D-s2,d0
		laminate density 1,350 kg/m ³		

MED Certification

EGGER Laminates in nominal thicknesses of 0.60 and 0.80 mm are **MED (Marine Equipment Directive)** certified and also meets the requirements of the **IMO (International Maritime Organization)**. The MED quality, confirmed by an accredited testing institute, allows the laminate to be used in ship interior, identifiable by the "Wheelmark" printed on the back.

Planners need the certificates "EC Certificate of conformity - Module D", "EC Type Examination Certificate - Module B" and "Certificate of fire approval" to prove the product quality. Fabricators require the "Declaration of Conformity" in the event of an order. The declaration of conformity must be requested from EGGER with the laminate order. The production order number and the order number are noted on the declaration of conformity.

Care and cleaning recommendation

EGGER Laminates 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 “EGGER Laminates balancer“
- Technical leaflet “EGGER Laminates with pearlescent decor“
- Technical leaflet “EGGER Laminates with protective film“
- Technical leaflet “EGGER Laminates for whiteboard use“
- 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, 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.