



# DUC LAM GROUP

PLYWOOD · PROUDLY MADE IN VIETNAM

From Nature to Nations

## TECHNICAL DATA SHEET

### DUC LAM UltraPlex Film

Duc Lam Plex · Premium film-faced plywood

Doc: TDS/DL-PLEX/UPF · Rev. [01]

Issue date: / /

Duc Lam UltraPlex Film is Duc Lam Group's premium film-faced plywood for concrete formwork, pressed on a 100% Eucalyptus core with phenolic (WBP) glue. It delivers a smooth, durable surface and high mechanical strength, conforms to EN 13986, and is produced from plantation-grown, EUDR-ready timber.

|                                                |                                                    |                                                 |                                                  |
|------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| <b>High reuse</b><br>Up to ... pours per panel | <b>Smooth face</b><br>Phenolic film $\geq 120$ gsm | <b>Strong core</b><br>100% Eucalyptus, WBP glue | <b>EUDR-ready</b><br>Plantation, fully traceable |
|------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|

## GENERAL PRODUCT INFORMATION

|                     |                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name        | Duc Lam UltraPlex Film                                                                                                                                                                |
| Application         | <ul style="list-style-type: none"><li>- Exterior use as structural component</li><li>- Concrete formwork / shuttering</li><li>- Load-bearing panels &amp; platforms</li></ul>         |
| Standard size       | <ul style="list-style-type: none"><li>- 1,220 x 2,440 mm</li><li>- 1,250 x 2,500 mm</li></ul><br>Optional: <ul style="list-style-type: none"><li>- Other sizes upon request</li></ul> |
| Available thickness | 9 – 30 mm (see thickness & weight table below)                                                                                                                                        |
| Surface             | Dark brown Dynea phenolic surface film, $\geq 120$ gsm<br><br>Optional: <ul style="list-style-type: none"><li>- Dynea Phenolic surface film, <math>\geq 220</math> gsm</li></ul>      |
| Edge coating color  | Water-based acrylic sealer – Dark brown color                                                                                                                                         |

## THICKNESS · PLIES · WEIGHT

| Nominal thickness | No. of plies | Weight (kg/m <sup>2</sup> )* | Panels / pallet* |
|-------------------|--------------|------------------------------|------------------|
| 9 mm              | 05           |                              |                  |
| 12 mm             | 07           | [8.3]                        |                  |
| 15 mm             | 09           | [10.3]                       |                  |
| 18 mm             | 11           | [12.4]                       |                  |
| 21 mm             | 13           | [14.4]                       |                  |
| 24 mm             | 15           | [16.5]                       |                  |
| 27 mm             | 17           | [18.5]                       |                  |
| 30 mm             | 19           | [20.6]                       |                  |

## PRODUCT SPECIFICATION

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Wood species (core) | 100% Eucalyptus, plantation wood from legal sources |
|---------------------|-----------------------------------------------------|

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|                                     |                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------|
|                                     | Optional:<br>- Combi hardwood core (Eucalyptus / Acacia)                                       |
| Glue (core)                         | Phenolic Formaldehyde (WBP)                                                                    |
| Moisture content (1)                | ≤ 12%, leaving mill as per EN 322:1993                                                         |
| Panel density                       | ≈ 680 kg/cbm ± 3% (100% Eucalyptus)<br>as per EN 323:1993                                      |
| Structure & quality (core)          | 100% machine-dried veneer<br>Overlap allowed · Core gap allowed (per grade)                    |
| Bonding properties (core)           | Class 3 as per EN 314-2                                                                        |
| Formaldehyde emission               | E1 as per EN 120:1992<br>E0 as per JP, AS & NZS<br>CARB P2 as per CARB, US — confirm certified |
| Length & Width tolerance            | +/- 1 mm / 1 m on nominal L & W (standard sizes)<br>as per EN 315:2000                         |
| Thickness tolerance (vs. nominal t) | + (0.2 + 0.03t) mm<br>- (0.4 + 0.03t) mm<br>as per EN 315:2000                                 |
| Thickness tolerance within 1 panel  | ≤ 0.6 mm as per EN 315:2000                                                                    |
| Squareness tolerance (2 diagonals)  | +/- 1.5 mm on nominal length of the diagonal line                                              |
| Squareness tolerance (corners)      | +/- 1 mm / 1 m as per EN 315:2000                                                              |
| Straightness tolerance              | +/- 1 mm / 1 m as per EN 315:2000                                                              |
| Warping tolerance                   | ≤ 30 mm, or touches horizontal plane under a 15 kg weight<br>as per JAS                        |

## PERFORMANCE

|                           |                                 |
|---------------------------|---------------------------------|
| Abrasion resistance       | ≥ 300 rev. as per EN 438-2:2016 |
| Swelling resistance       | ≤ 10% as per EN 317:1993        |
| Rippling resistance       | Standard                        |
| Reuses (concrete pouring) | Up to [...] times               |

## DESIGN DATA (STRUCTURAL) — as per EN 310:1993

| Property                                   | Lengthwise | Widthwise ⊥ |
|--------------------------------------------|------------|-------------|
| Modulus of elasticity (N/mm <sup>2</sup> ) | ≥ [...]    | ≥ [...]     |
| Mean bending strength (N/mm <sup>2</sup> ) | ≥ [...]    | ≥ [...]     |

Recommended partial safety factors: material γ<sub>M</sub> = [1.3], load = [1.2]. Values are characteristic — confirm against your own test report.

## COMPLIANCE & ORIGIN

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Certificates           | CE — EN 13986 + A1:2015 (System [2+])<br>ISO 9001 [ : cert no. _____ ]<br>[ISO 14001 : cert no. _____ ] |
| Wood material legality | EUDR (EU) / Lacey Act (US) and equivalent<br>EUDR Due Diligence Statement available                     |

|        |                                                        |
|--------|--------------------------------------------------------|
|        | Optional:<br>- FSC® CoC / PEFC [ : licence no. _____ ] |
| Origin | Made in Vietnam                                        |

## PACKAGING STANDARD

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| Packaging standard               | Palletized, covered with carton and plastic straps<br><br>Optional:<br>- Covered with thin plywood |
| Loading quantity (crates / cont) | [14 - 16] pallets per 40'HC                                                                        |
| Shipping mark & logo             | Duc Lam Group / per customer requirement                                                           |

## HANDLING & STORAGE

- Store panels flat on a level base, clear of the ground, in dry and ventilated conditions.
- Keep panels covered and protected from direct sunlight and rain until use.
- Seal cut edges and drilled holes with a suitable edge sealer to preserve performance and reuse.
- Handle on edge or fully supported; avoid dragging to protect the film surface.

### Notes:

- (1): Equilibrium Moisture Content — EMC
- t: nominal thickness
- \* Weight & loading figures are indicative until confirmed with measured data.

**Related documents: Declaration of Performance (DoP) · FSC CoC · EUDR Due Diligence Statement — available on request at [duclamplywood.com](https://duclamplywood.com)**

*Duc Lam is a registered trademark of Đức Lâm Group. Specifications are subject to change without prior notice.*

Approved by: [ \_\_\_\_\_ ] · Product Management Team