HFB ENGINEERING GMBH
TEST AND CERTIFICATION INSTITUTE FOR CONSTRUCTION PRODUCTS

HFB Engineering GmbH • Zschortauer Straße 42 • 04129 Leipzig

DAkkS Deutsche Akkreditierungsstelle D-ZE-18661-01-00
The accreditation is valid for the product areas specified in the approval document.

NB 1034 SAC 05

# CERTIFICATION REPORT

Original Issuance

## No.: CR 3110012983/1/2022

| | |
|---|---|
| **Production site:** | **Indústria de Compensados Sudati Ltda.<br>Rodovia BR 153, Km 04<br>Ibaiti – PR Cep: 84900000<br>Brazil** |
| **Content of order:** | **Certification of Factory and Factory Production Control (FPC)** |
| **AVCP system:** | **2+** |
| **Construction product:** | **Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking EN 13986:2004+A1:2015** |
| **Group of construction products:** | **Plywood** |

This report consists of 3 pages of text and
- appendices with a total of - pages

Leipzig, September 21st, 2022

**Dipl.- Ing. L. Roewer**
Responsible person for the decision concerning certification

Prüf-, Überwachungs- und Zertifizierungsstelle HFB

## 1. Fundamentals of this Certification Report

This certification report is based on the statements found in the Inspection Report No. IR 3110012983/1/2022 issued by HFB Engineering GmbH Leipzig on September 20th, 2022.

## 2. Assessment of the Results of Third-party Monitoring

The following assessments are based on Inspection Report No. IR 3110012983/1/2022 of September 20th, 2022 (regular inspection of the factory and the factory production control):

- The production site Indústria de Compensados Sudati Ltda., Ibaiti, PR (Brazil) sufficiently fulfills the technical and personnel preconditions necessary to produce, in accordance with the requirements, wood-based panels, especially plywood, as according to EN 13986:2004+A1:2015.

- The plywood panels produced at the production site Indústria de Compensados Sudati Ltda., Ibaiti, PR (Brazil) and of the following types

| Panel Types | | Nominal Thickness (mm) | Number of Plies | Wood Species | | Intended use as pursuant to EN 13986, section 4.1 to 4.7 |
|---|---|---|---|---|---|---|
| No. | Product Name | | | Outer Layers | Inner Plies | |
| 1 | "SUDPLY / Enviroply" | 9 | 3 | Pinus elliotti > 650 kg/m³ | Pinus elliotti, Pinus taeda > 420 kg/m³ | 4.1 / 4.2 |
| 2 | | 12 | 5 | | | 4.1 / 4.2 / 4.7 |
| 3 | | 12.5 | 5 | | | 4.1 / 4.2 / 4.7 |
| 4 | | 15 | 5 | | | 4.1 / 4.2 / 4.7 |
| 5 | | 18 | 7 | | | 4.1 / 4.2 / 4.7 |
| 6 | | 21 | 7 | | | 4.1 / 4.2 |
| 7 | | 24 | 9 | | | 4.1 / 4.2 |
| 8 | | 27 | 9 | | | 4.1 / 4.2 |
| 9 | | 30 | 11 | | | 4.1 / 4.2 |
| 10 | | 9 | 3 | Eucalyptus grandis (also centers) | Pinus elliotti, Pinus taeda > 420 kg/m³ | 4.1 |
| 11 | | 12.5 | 5 | | | 4.1 |
| 12 | | 15 | 5 | | | 4.1 |
| 13 | | 18 | 7 | | | 4.1 |
| 14 | | 21 | 7 | | | 4.1 |
| 15 | | 24 | 9 | | | 4.1 |
| 16 | | 12 | 5 | Pinus elliotti > 650 kg/m³ | Pinus elliotti, Pinus taeda, Eucalyptus grandis | 4.1 |
| 17 | | 18 | 7 | | | 4.1 |
| 18 | | 18 | 7 | | | 4.1 |

| Panel Types | | | Resin Type | Veneer Thickness / Panel Layup |
|---|---|---|---|---|
| No. | Nominal Thickness (mm) | Number of Plies | | |
| 1 | 9 | 3 | Phenolic | 2.7 – 3.7 – 2.7 |
| 2 | 12 | 5 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 3 | 12.5 | 5 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 4 | 15 | 5 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 5 | 18 | 7 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 6 | 21 | 7 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 7 | 24 | 9 | | 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 |
| 8 | 27 | 9 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 9 | 30 | 11 | | 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 |
| 10 | 9 | 3 | | 2.7 – 2.7 – 2.7 |
| 11 | 12.5 | 5 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 12 | 15 | 5 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 13 | 18 | 7 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 14 | 21 | 7 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 15 | 24 | 9 | | 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 |
| 16 | 12 | 5 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 17 | 18 | 7 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 18 | 18 | 7 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |

are subject to factory production control (FPC) that is in accordance with the standards of EN 13986:2004+A1:2015.

- The required performance characteristics for the products mentioned above were demonstrated by the results of Type Testing (TT). Details are contained in the corresponding TT reports.

- The notices found in Inspection Report No. IR 3110012983/1/2022 dated September 20th, 2022, must be complied with.

## 3. Statements Concerning the Certificate of Factory Production Control

Based on the results of inspection 1/2022 of the factory and the factory production control, carried out by the notified certification body, the

Certificate of conformity of Factory Production Control
No. 1034 – CPR – 12983/1/2017
dated March 2nd, 2017

retains its validity.

The Certificate of conformity of Factory Production Control shall retain its validity only under the pre-condition, that the manufacturer will comply with the notices contained in the Inspection Report No. IR 3110012983/1/2022.

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The accreditation is valid for the product areas specified in the approval document.

NB 1034 SAC 05

# CERTIFICATION REPORT

Original Issuance

## No.: CR 3110012982/1/2022

| | |
|---|---|
| **Production site:** | **Industria de Compensados Sudati Ltda.<br>Av. Pres. Getulio Vargas, 1638<br>85555-000 Palmas, PR<br>Brazil** |
| **Content of order:** | **Certification of the Factory and the Factory Production Control (FPC)** |
| **AVCP system:** | **2+** |
| **Construction product:** | **Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking EN 13986:2004+A1:2015** |
| **Group of construction products:** | **Plywood** |

This report consists of 3 pages of text and
- appendices with a total of - pages

Leipzig, September 20th, 2022

**Dipl.- Ing. L. Roewer**
Responsible person for the decision concerning certification

Prüf-, Überwachungs- und Zertifizierungsstelle HFB

## 1. Fundamentals of this Certification Report

The Certification Report is based on the statements found in Inspection Report No. IR 3110012982/1/2022 issued by HFB Engineering GmbH Leipzig on September 19th, 2022.

## 2. Assessment of the Results of Third-party Monitoring

The following assessments are based on Inspection Report No. IR 3110012982/1/2022 (inspection of the factory and the factory production control):

- The production site Industria de Compensados Sudati Ltda., Palmas, PR (Brazil) sufficiently fulfills the technical and personnel preconditions necessary to produce, in accordance with the requirements, wood-based panels, especially plywood, as according to EN 13986:2004+A1:2015.
- The plywood panels produced at the production site Industria de Compensados Sudati Ltda., Palmas, PR (Brazil) and of the following types

| Panel Types | | Nominal Thickness (mm) | Number of Plies | Wood Species | | Intended Use as pursuant to EN 13986, section 4.1 to 4.7 |
|---|---|---|---|---|---|---|
| No. | Product Name | | | Outer Layers | Inner Plies | |
| 1 | SUDPLY/ Enviroply | 9.0 | 3 | pinus elliottii > 650 kg/m³ | pinus elliottii, pinus taeda > 420 kg/m³ | 4.1 / 4.2 |
| 2 | | 12.0 | 5 | | | 4.1 / 4.2 / 4.7 |
| 3 | | 12.5 | 5 | | | 4.1 / 4.2 / 4.7 |
| 4 | | 15.0 | 5 | | | 4.1 / 4.2 / 4.7 |
| 5 | | 18.0 | 7 | | | 4.1 / 4.2 / 4.7 |
| 6 | | 21.0 | 7 | | | 4.1 / 4.2 |
| 7 | | 24.0 | 9 | | | 4.1 / 4.2 |
| 8 | | 27.0 | 9 | | | 4.1 / 4.2 |
| 9 | | 30.0 | 11 | | | 4.1 / 4.2 |
| 10 | | 9.0 | 3 | | | 4.1 / 4.2 |
| 11 | | 11.0 | 3 | | | 4.1 / 4.2 |
| 12 | | 12.0 | 4 | | | 4.1 / 4.2 |
| 13 | | 15.0 | 5 | | | 4.1 / 4.2 |
| 14 | | 18.0 | 5 | | | 4.1 / 4.2 |
| 15 | | 18.0 | 6 | | | 4.1 / 4.2 |
| 16 | | 21.0 | 7 | | | 4.1 / 4.2 |
| 17 | | 24.0 | 8 | | | 4.1 / 4.2 |
| 18 | | 27.0 | 9 | | | 4.1 / 4.2 |
| 19 | | 30.0 | 10 | | | 4.1 / 4.2 |

| Panel Types | | | Resin Type | Veneer Thickness / Panel Layup | | |
|---|---|---|---|---|---|---|
| No. | Nominal Thickness (mm) | Number of Plies | | Face, Back | Centers | Crossbands |
| 1 | 9.0 | 3 | Phenolic | 2.7 mm | – | 2.7 mm |
| 2 | 12.0 | 5 | | | 2.7 mm | 2.2 mm |
| 3 | 12.5 | 5 | | | | 2.7 mm |
| 4 | 15.0 | 5 | | | | 3.7 mm |
| 5 | 18.0 | 7 | | | | 2.7 mm |
| 6 | 21.0 | 7 | | | | 3.7 mm |
| 7 | 24.0 | 9 | | | | 3.1 mm |
| 8 | 27.0 | 9 | | | | 3.7 mm |
| 9 | 30.0 | 11 | | | | 3.1 mm |
| 10 | 9.0 | 3 | | 3.1 mm | – | 3.1 mm |
| 11 | 11.0 | 3 | | | | 4.6 mm |
| 12 | 12.0 | 4 | | | | 3.1 mm |
| 13 | 15.0 | 5 | | | 3.1 mm | 3.1 mm |
| 14 | 18.0 | 5 | | | | 4.6 mm |
| 15 | 18.0 | 6 | | | | 3.1 mm |
| 16 | 21.0 | 7 | | | | 3.1 mm |
| 17 | 24.0 | 8 | | | | 3.1 mm |
| 18 | 27.0 | 9 | | | | 3.1 mm |
| 19 | 30.0 | 10 | | | | 3.1 mm |

are subject to factory production control (FPC) that is in accordance with the standards of EN 13986:2004+A1:2015.

- The required performance characteristics for the products mentioned above were demonstrated by the results of type testing (TT). Details are contained in the corresponding reports.
- The notices found in Inspection Report No. IR 3110012892/1/2022 dated September 19th, 2022, must be complied with.

## 3. Statements Concerning the Certificate of Factory Production Control

Based on the results of the inspection 1/2022 of the factory and the factory production control, carried out by the notified certification body, the

Certificate of conformity of Factory Production Control
No. 1034 – CPR – 12982/1/2017
dated March 2nd, 2017

retains its validity.

The Certificate of conformity of Factory Production Control shall retain its validity only under the pre-condition, that the manufacturer will comply with the notices contained in the Inspection Report No. IR 3110012982/1/2022.

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NB 1034

SAC 05

# CERTIFICATION REPORT

Original Issuance

## No.: CR 311001645/1/2022

| | |
|---|---|
| **Production site:** | **Indústria de Compensados Sudati Ltda.<br>Rod. do Cerne PR 090, Km 60.3, Barro Preto<br>Ventania – PR Cep: 84354000<br>Brazil** |
| **Content of order:** | **Certification of the Factory and the Factory Production Control (FPC)** |
| **AVCP system:** | **2+** |
| **Construction product:** | **Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking EN 13986:2004+A1:2015** |
| **Group of construction products:** | **Plywood** |

This report consists of 3 pages of text and
\- appendices with a total of - pages

Leipzig, September 21st, 2022

**Dipl.- Ing. L. Roewer**
Responsible person for the decision concerning certification

Prüf-, Überwachungs- und Zertifizierungsstelle HFB

Any publication of this Certification Report – even in extracts – requires the advance written approval of HFB Engineering GmbH.

## 1. Fundamentals of this Certification Report

This Certification Report is based on the statements found in Inspection Report No. IR 311001645/1/2022 issued by HFB Engineering GmbH Leipzig on September 20th, 2022.

## 2. Assessment of the Results of Third-party Monitoring

The following assessments are based on Inspection Report No. 311001645/1/2022 of September 20th, 2022 (regular inspection of the factory and the factory production control):

- The production site Indústria de Compensados Sudati Ltda., Ventania, PR (Brazil) sufficiently fulfills the technical and personnel preconditions necessary to produce, in accordance with the requirements, wood-based panels, especially plywood, as according to EN 13986:2004+A1:2015.

- The plywood panels produced at the production site Indústria de Compensados Sudati Ltda., Ventania, PR (Brazil) and of the following types

| Panel Types | | Nominal Thickness (mm) | Number of Plies | Wood Species | | Intended use as pursuant to EN 13986, section 4.1 to 4.7 |
|---|---|---|---|---|---|---|
| No. | Product Name | | | Outer Layers | Inner Plies | |
| 1 | "SUDPLY / Enviroply" | 9 | 3 | Pinus elliottii | Pinus elliottii, Pinus taeda | 4.1 / 4.2 |
| 2 | | 12 | 5 | | | 4.1 / 4.2 / 4.7 |
| 3 | | 12.5 | 5 | | | 4.1 / 4.2 / 4.7 |
| 4 | | 15 | 5 | | | 4.1 / 4.2 / 4.7 |
| 5 | | 18 | 7 | | | 4.1 / 4.2 / 4.7 |
| 6 | | 20 | 7 | | | 4.1 / 4.2 |
| 7 | | 21 | 7 | | | 4.1 / 4.2 |
| 8 | | 24 | 9 | | | 4.1 / 4.2 |
| 9 | | 27 | 9 | | | 4.1 / 4.2 |
| 10 | | 30 | 11 | | | 4.1 / 4.2 |
| 11 | | 9 | 3 | | | 4.1 / 4.2 |
| 12 | | 11 | 3 | | | 4.1 / 4.2 |
| 13 | | 12 | 4 | | | 4.1 / 4.2 |
| 14 | | 15 | 5 | | | 4.1 / 4.2 |
| 15 | | 18 | 5 | | | 4.1 / 4.2 / 4.7 |
| 16 | | 18 | 6 | | | 4.1 / 4.2 |
| 17 | | 21 | 7 | | | 4.1 / 4.2 |
| 18 | | 24 | 8 | | | 4.1 / 4.2 |
| 19 | | 27 | 9 | | | 4.1 / 4.2 |
| 20 | | 30 | 10 | | | 4.1 / 4.2 |
| 21 | | 9 | 3 | | Pinus elliottii/taeda Eucalyptus grandis | 4.1 |
| 22 | | 15 | 5 | | | 4.1 |
| 23 | | 21 | 7 | | | 4.1 |

| Panel Types | | | Resin Type | Veneer Thickness / Panel Layup |
|---|---|---|---|---|
| No. | Nominal Thickness (mm) | Number of Plies | | |
| 1 | 9 | 3 | Phenolic | 2.7 – 3.7 – 2.7 |
| 2 | 12 | 5 | | 2.7 – 2.2 – 2.7 – 2.2 – 2.7 |
| 3 | 12.5 | 5 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 4 | 15 | 5 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 5 | 18 | 7 | | 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 – 2.7 |
| 6 | 20 | 7 | | 2.7 – 3.3 – 3.3 – 3.3 – 3.3 – 3.3 – 2.7 |
| 7 | 21 | 7 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 8 | 24 | 9 | | 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 |
| 9 | 27 | 9 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 10 | 30 | 11 | | 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 – 3.1 – 2.7 |
| 11 | 9 | 3 | | 3.1 – 3.1 – 3.1 |
| 12 | 11 | 3 | | 3.1 – 4.6 – 3.1 |
| 13 | 12 | 4 | | 3.1 – 3.1 – 3.1 – 3.1 |
| 14 | 15 | 5 | | 3.1 – 3.1 – 3.1 – 3.1 – 3.1 |
| 15 | 18 | 5 | | 3.1 – 4.6 – 3.1 – 4.6 – 3.1 |
| 16 | 18 | 6 | | 3.1 – 3.1 – 3.1 – 3.1 – 3.1 – 3.1 |
| 17 | 21 | 7 | | 3.1 – 3.1 – 3.1 – 3.1 – 3.1 – 3.1– 3.1 |
| 18 | 24 | 8 | | 3.1 – 3.1 – 3.1 – 3.1 – 3.1 – 3.1– 3.1 – 3.1 |
| 19 | 27 | 9 | | 3.1 – 3.1 – 3.1 – 3.1 – 3.1 – 3.1– 3.1 – 3.1 – 3.1 |
| 20 | 30 | 10 | | 3.1 – 3.1 – 3.1 – 3.1 – 3.1 – 3.1– 3.1 – 3.1 – 3.1 – 3.1 |
| 21 | 9 | 3 | | 2.7 – 3.7 – 2.7 |
| 22 | 15 | 5 | | 2.7 – 3.7 – 2.7 – 3.7 – 2.7 |
| 23 | 21 | 7 | | 2.7 – 3.7 – 3.7 – 3.7 – 3.7 – 3.7 – 2.7 |

are subject to a factory production control (FPC), that is in accordance with the standards of EN 13986:2004+A1:2015.

- The performance characteristics required for the products mentioned above were demonstrated by the results of Initial Type Testing (ITT).

- The notices found in Inspection Report No. IR 311001645/1/2022 of September 20th, 2022, must be complied with.

## 3. Statements Concerning the Certificate of Factory Production Control

Based on the results of inspection 1/2022 of the factory and the factory production control, carried out by the notified certification body, the

Certificate of conformity of Factory Production Control
No. 1034 – CPR – 1645/1/2017
dated March 2nd, 2017

retains its validity.

The Certificate of conformity of Factory Production Control shall retain its validity only under the pre-condition, that the manufacturer will comply with the notices contained in the Inspection Report No. IR 311001645/1/2022.