



Products Certification Body
Institute for Testing and Certification, Inc. (ITC), Zlín, Czech Republic

CERTIFICATE

No. 12 0864 V/ITC/a

confirms that the product

EKOPANEL VP 01

introduced on the market by company

EKOPANELY CZ s. r. o.
Jedousov, 535 01 Přelouč, Czech Republic
NIP: CZ25918460

and produced in the factory

EKOPANELY CZ s. r. o.
Jedousov, 535 01 Přelouč, Czech Republic

complies with the applicable requirements of the European harmonized technical standard:

ČSN EN 13501-1+A1 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests

ČSN EN 13501-2+A1 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests

public notice 6/2003 Coll. providing hygienic limits of chemical, physical and biological indicators for indoor environments residential rooms in some buildings

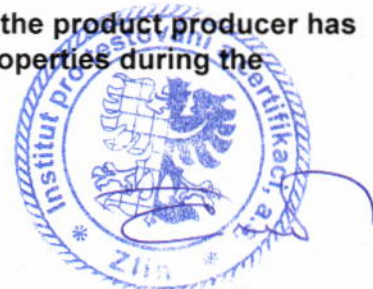
ČSN EN 13986 Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking

The Certificate has been issued on the basis of the following certification document:

Final Report No. 313500498/2013

Institute for testing and certification, a. s., confirms that the product producer has created all the conditions needed to keep the product properties during the production process.

Issued in Zlín, on: 23rd October 2012
Revision a): 17th May 2013
(Replaces the certificate 12 0864 V/ITC issued on 23rd October 2012)



RNDr. Radomír Čevelík
General Director



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a.s.
T. BATI 299, 764 21 ZLÍN, ČESKÁ REPUBLIKA

FINAL REPORT

No.: 313500498/2013

Applicant: **EKOPANELY CZ s.r.o.**

Applicant: **Jedousov
535 01 Přelouč
Česká republika**

DIČ: **CZ25 91 84 60**

Products: **EKOPANEL VP 01**

Producer: **EKOPANELY CZ s.r.o.**

Certification carried out by **Ing. Petr Ptáček, Ph.D.**

Date of issue: **17.5.2013**



RNDr. Radomír Čevelík
General Director



Introduction

Certification of the product was carried out on the basis of an application form No. 313500498 EKOPANELY CZ s.r.o., Jedousov, Přelouč 535 01, Czech Republic, on 6th May 2013.

The aim of this assessment is to demonstrate the safety requirements of European and Czech standards in the production of pressed straw boards to facilitate access to this product on the market of the Czech Republic and the EU.

1. Specification of the product

The product is classified in accordance with EN 312 as particle board without coating for permanent installation in building for non-load bearing purposes in use class 1 according to EN 335-3 (dry-condition).

2. Compliance of properties certified product with specified regulations

2.1 Specified regulation

Assessment of the product was carried out according to standard ČSN EN 13501-1+A1 – par. 8, 11, ČSN EN 13501-2+A1 – par. 5, 6,7, public notice 6/2003 Coll., ČSN EN 13986 – par. 4.4, 5.7, 5.8

2.2 Indicators of essential characteristics, test methods

Specified in the tab.1.

2.3 Place of testing

Samples were delivered to the ČIA accredited testing laboratories No. 1031, 1007.7, 1321, 1206.3, 1206.3, 1026.2, 1026.1, 1018.5, 1396, SNAS accredited testing laboratory 041/S-159 and the testing laboratory ITB Warszawa.

2.4 Test results

Test results are mentioned in the table 1.

Table 1.

No.	Assessed feature	Requirement	Result	Evaluation
1.	resistance soft body impact	EN 596 impact body – 50 kg impact energy 30-210 J	180 J without failure 210 J rupture	compliant
2.	reaction for fire	EN 13 501-1+A1 par. 8, 11	E thickness 58+2 mm	compliant
3.	fire resistance	EN 13501-2+A1 EN 1364-1 <i>composition:</i> - EKOPANEL VP 01 tl. 59 mm	EI 30 (o↔i) DP3	compliant
		EN 1365-1 <i>composition:</i> - beam 50/140 mm – S10 C 24, a' = 725 mm - EKOPANEL VP 01 tl. 59 mm - joint cover with wooden plank 80x40 mm	RE 30 REW 30 REI 45 DP3 from side Ekopanel VP1	
4.	fire resistance of ceiling	EN 13501-2+A1 EN 1365-2 <i>composition:</i> - wooden plank – 25 mm - beam 140/180 mm – S10, a' = 1060 mm - EKOPANEL VP 01 th. 59 mm - penetration by Sokrat 1:3 - reinforcing grid in cement binder	EI 45 DP3	compliant
5.	index spread of flame in surface	ČSN 730802 čl. 7.14.2	$i_s = 34 \text{ mm} \cdot \text{min}^{-1}$	compliant
6.	coefficient of thermal conductivity	EN 12664, EN 10456	$\lambda_D = 0,099 \text{ W}/(\text{m} \cdot \text{K})$	compliant
7.	thermal resistance	thickness (0,058 m) / λ	0,586 m ² / kW	compliant
8.	transmission of water vapor	EN ISO 12572 B (23°C, 0/85% relative humidity)	$\mu = 9,7$	compliant
9.	coefficient diffusion conductivity	EN ISO 12572 B (23°C, 0/85% relative humidity)	$\delta = 0,074 \text{ mg}/(\text{m} \cdot \text{h} \cdot \text{Pa})$	compliant
10.	formaldehyde content	EN 13986 – Table B.1 - E1 ≤ 3,5 mg/m ² h	2,64 mg/m ² h	compliant
11.	healthy irrelevancy	SOP 1/12 SOP 2/12 evaluation by SZÚ	Suitable for using in interior of building public notice 6/2003 Sb.	compliant



2.6 Comparison of properties of certified product with the technical requirements

Certified product complies with the requirements of the standards:

ČSN EN 13501-1+A1 – par. 8, 11, ČSN EN 13501-2+A1 – par. 5, 6,7, public notice 6/2003 Coll., ČSN EN 13986 – par. 4.4, 5.7, 5.8

3. Assessment of the quality management system in production

Assessment of the factory production control was carried out by qualified person of certification body of ITC in production company EKOPANELY CZ s.r.o., Jedousov, Přelouč 535 01, Czech Republic, on 3.5.2013. The production control system is in function, no differences have been identified.

The factory production control of EKOPANELY CZ s.r.o., is subject to periodic surveillance performed by ITC Certification Body for products.

4. Conclusion

Certified product complies with requirements of the standards:

- ČSN EN 13501-1+A1 – par. 8, 11 – E (thickness 58+2 mm)
- ČSN EN 13501-2 +A1– par. 5, 6,7 – EI 30 ($\alpha \leftrightarrow i$), RE 30, REW 30, REI 45 DP3, EI 45 DP3 (classification depend on construction)
- public notice 6/2003 Coll.
- ČSN EN 13986 – par. 4.4, 5.7, 5.8 – E1

From the data presented in Table 1 it concludes that certified products meet the stated parameters determined with standards that apply to them.

ITC certification body on the basis of initial type testing and audit results of factory production control states that the products are in conformity with the provisions of normative regulations referred to in section 2.1, and the manufacturer and production control system ensures continuous compliance with the properties of the product specifications.

ITC Certification Body decides to issue product certificate confirming compliance with the standards requirements.

The product complies with requirements for the issue of certificate by the ITC Certification Body.