

**INSTITUTE FOR TESTING AND CERTIFICATION, INC.**

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TEST REPORT

Reference No. 753501706/ 2019

Applicant: **EKOPANELY SERVIS s.r.o.**
Jedousov 64
535 01 Přelouč
Czech Republic

NIP: **CZ 27508561**

Product: **EKOPANELY E40, EKOPANELY BOARDS E40**
(thickness 38 mm)
EKOPANELY E60, EKOPANELY BOARDS E60
(thickness 58 mm)

Manufacturer: **EKOPANELY CZ s.r.o.**
Jedousov 72, 535 01 Přelouč, Czech Republic

Elaborated by: Ing. Petr Ptáček, Ph.D.

Issued on: 4th March 2019



A handwritten signature in blue ink, appearing to read 'Paul V. Heš'.

Mgr. Jiří Heš*Representative of Notified Body No. 1023*



1. Product specification

This product is classified in accordance with EN 312 as particleboard without surface treatment for permanent installation in buildings for non-load bearing purposes in the use class 1 according to EN 335-3 (dry condition).

The product is defined in EN 309, Article 2, as particleboard – wood based panels produced by compressing and heating the particles of lignocellulosic material in particle form (straw) with adhesive.

EKOPANELY E40, EKOPANELY BOARDS E40 (thickness 38 mm), EKOPANELY E60, EKOPANELY BOARDS E60 (thickness 58 mm) - pressed boards are made from straw, as a single-layer thicknesses 38 and 58 mm, in widths of 800, 1200 mm.

Declared method of use:

Non-structural panels in dry condition for use in structures, walls, roofs, ceilings and floors in use class 1 - EN 335, service class 1 - EN 1995-1-1

Product specifications:

Cereal straw: dry straw obtained after harvest of grain.

Recycled cardboard: thickness 0.55 mm, density 450 g/m³

Urea-formaldehyde adhesive: for glue of pressed straw and cladding from recycled cardboard

Density: 380 kg/m³ ± 10%, thickness 38, 58 mm, standard widths of 800, 1200 mm

2. Assessment and verification of constancy of performance according to Regulation (EU) No 305/2011 of the European Parliament and of the Council

Wood based panels as construction products are assessed on the basis of relevant clauses of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9th March 2011 laying down harmonised conditions for marketing of construction products and repealing Council Directive 89/106/EEC (called „CPR“)

2.1. System of assessment and verification of constancy of performance (AVCP)

The submitted product is assessed pursuant to system of AVCP 3 of the CPR (Annex V).

The type testing was carried out according to Annex ZA of the standard ČSN EN 13986+A1.



2.2. Indicators specifying basic requirements for construction works

The initial type testing (type testing) was carried out by the notified body (the notified test laboratory) in the following range of relevant properties according to Table ZA.3.3 (of the ČSN EN 13986+A1):

- Reaction to fire
 - ignitability – surface exposure according to ČSN EN ISO 11925-2
 - classification according to ČSN EN 13501-1+A1

2.3. Sampling place and number of samples taken

The test samples were sent by the manufacturer. The number of the samples sent was as follows:

- EKOPANELY E40, EKOPANELY BOARDS E40 (thickness 38 mm) – pressed boards are made from straw thickness, in an amount of 5 pieces (250 x 90 x 38 mm)

The test samples (test specimens) were registered under the registration numbers 75 35 00882/1, 2, 3, 4, 5 on 10th June 2013.

2.4. Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (August 2013)
- Centrum stavebního inženýrství (CSI), a.s. Prague, Fire Technical Laboratory, Accredited test laboratory No.1007.7, NB 1390 (February 2007)

2.5 Test results

Tests were carried out on test representatives.

2.5.1 EKOPANELY E40, EKOPANELY BOARDS E40 (thickness 38 mm)

EKOPANELY E60, EKOPANELY BOARDS E60 (thickness 58 mm)

2.5.1.1 Ignitability results

The manufacturer has declared reaction to fire class E.

Table 1 – Ignitability results – EKOPANEL density: $380 \text{ kg/m}^3 \pm 10 \%$

Characteristic	Surface exposure test (characteristic for individual test specimens)	
	Thickness: 38 mm	Thickness: 58 mm
Ignition of the test specimen Yes/No	No, No, No, No, No	No, No, No, No, No, No
Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No, No	No, No, No, No, No, No
Burning time to reach 150 mm (s)	-, -, -, -, -	-, -, -, -, -, -
Ignition of the filter paper	No, No, No, No, No	No, No, No, No, No, No

Notice: The test results for the thickness of 38 mm were taken over from the document: Test report of accredited laboratory No. 753500822, issued by the Institute for Testing and Certification, ČIA accredited testing laboratory no. 1004 (NB 1023), on 8th August, 2013.

The test results for the thickness of 58 (≥ 60) mm were taken over from the document: Test report of accredited laboratory No. 13463, issued by the Centrum stavebního inženýrství, a.s., ČIA accredited testing laboratory no. 1007.7 (NB 1390), on 15th February 2007.

2.5.1.2 Results of the reaction to fire classification

Table 3 – Reaction to fire classification – exposure of surface

Product	Reaction to fire class	Additional class for smoke production	Final class
EKOPANEL E 40, EKOPANELY BOARDS E40 (thickness 38 mm) EKOPANEL E 60, EKOPANELY BOARDS E60 (thickness 58 mm)	E	-	E

Notice: The classification of the reaction to fire is valid for the products, which fulfil the specification shown in Art. 1 of the Test Report.



3. A list of documents used to working out the Test Report

- Application No. 753501706 for assessment of CE-marked construction products
- ČSN EN 13986+A1 Desky na bázi dřeva pro použití ve stavebnictví - Charakteristiky, hodnocení shody a označení (Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking)
- ČSN EN 309 Třískové desky - Definice a klasifikace (Particleboards - Definition and classification)
- ČSN EN 312 Třískové desky – Požadavky (Particleboards – Specifications)
- Test Report of accredited laboratory, reference No. 753500882/01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 8th August 2013
- Classification Report using Results of Reaction to Fire No. 753501706BK/2019, elaborated by ITC,a.s. Zlín, on 4th March 2019
- Test report of accredited laboratory No. 13463, issued by the Centrum stavebního inženýrství, a.s., ČIA accredited testing laboratory no. 1007.7 (NB 1390), on 15th February 2007