INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a.s.
Třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic
CSI division – Centre of Civil Engineering

AUTORIZED BODY No. 224
Authorisation Decision No. 11/2023 on 7 August 2023

Issues to

CONSTRUCTION TECHNICAL APPROVAL
No. STO – AO 224 – 1608/2025

pursuant to §2 and §3 of Czech Government regulation No. 163/2002 Coll., as amended by Government Order No. 312/2005 Coll., Government Order No. 215/2016 Coll. and Government Order No. 119/2024 Coll.

The Authorized Body certifies the suitability of the construction product

Composite panels ACP Bond
Type: Cladding composite board with PE core with aliminium thickness 0,12 – 0,5 mm, total panel thickness 2 mm – 4 mm

Introduced to the market by

Dencop Lighting spol. s r.o.
Tečovská 1122
763 02 Zlín-Malenovice
IČ: 25566130
DIČ: CZ25566130

from the manufacturing site:

under the code ACN015

with respect to the essential requirements for constructions and to the intended product use in the construction.

Contract No.: 785200482

Number of pages:	**9**
Place and date of issue:	**Zlín, 2025-08-01**
This Certificate shall be valid till:	**2028-08-31**

AUTORIZOVANÁ OSOBA 224 · INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a.s. · 3

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Mgr. Jiří Heš
Representative of the authorized body No. 224

1. Introduction

This Construction Technical Approval (hereinafter referred to as CTA) was issued by Authorized Body AO 224 based on the application of the applicant for conformity assessment of the construction product pursuant to Government Decree No. 163/2002 Coll., as amended by Government Decrees No. 312/2005 Coll., No. 215/2016 Coll. and No. 119/2024 Coll. (hereinafter referred to as Government Decree 163), due to non-existence of specific standards or technical regulations specifying applicable essential requirements with respect to the intended use of the product in the construction. In this document, the Authorized Body AO 224 specifies the technical properties of the product, their performances and procedures to examine the properties in relation to the essential requirements for constructions specified in Annex 1 to Government Decree 163 and to the intended product use in the construction. This document is a technical specification intended for use within product conformity assessment.

2. Identification of the Authorized Body

This Construction Technical Approval is issued by Authorized Body AO 224, – Institut pro testování a certifikaci, a.s. in Zlín. Authorization for this construction product type was granted to this Authorized Body by the Office for Standards Metrology and Testing (ÚNMZ), Decision No. 11/2023 on 7 August 2023. The identification data of the Authorized Body are as follows:

Institut pro testování a certifikaci, a.s.
Třída Tomáše Bati 299, Louky
763 02 Zlín
Czech Republic
Company Registration No.: 47910381
VAT Reg. No.: CZ47910381
Phone: +420 572 779 922, e-mail director@itczlin.cz

3. Identification of the applicant and the manufacturer

3.1. Identification of the applicant

The application for cooperation on the conformity assessment was issued by a company, also engaged in production of the construction elements. The identification data of the applicant are as follows:

Dencop Lighting spol. s r.o.
Tečovská 1122
763 02 Zlín-Malenovice
IČ: 25566130
DIČ: CZ25566130
telefon: +420 776 004 704, email: dencop@dencop.cz , Tadeáš Gregůrek

3.2. Identification of the manufacturer

The product is manufactured by the company listed under the code: *ACN015.*
The applicant provided the Authorized Person AO 224 with information about the manufacturer and place of production.

4. Identification of the product and specification of its use in the construction

4.1. Product identification and description

Composite panels ACP Bond are double-sided are double-sided aluminium panels with a thickness of 2,3,4 mm, coated with a PE (LDPE) core, produced by a continuous coextrusion process. The layers are fixed by chemical and mechanical processes, giving the material resistance to delamination. The aluminium surfaces are coated with polyester paint in various colors. The plates have a protective film on both sides.

Technical parameters:
- standard aluminium thickness: 0,12 mm; 0,15 mm; 0,18 mm; 0,21 mm; 0,3 mm; 0,5 mm
- standard panel thickness: 2 mm; 3 mm; 4 mm
- standard panel width: 1220 mm; 1500 mm; 2000 mm
- standard panel lengths: 1000 mm; 3050 mm; 4050 mm; 5000 mm; 6000 mm

4.2. Marking on the product

Products are labeled with data including the full name of the product, distributor, dimensions, number of pieces in the package.

4.3. Intended use of the product in the construction

Wall and ceiling cladding, façade cladding, partition fillings, building infill, inside of cells, balcony fillings, boards for information systems.

4.4. Restrictions on the product use

The product is not suitable for use on facade panels where a higher classification of Reaction to fire is required according to ČSN EN 13501-1:2019. It is not recommended to expose the panels to unusual environments such as intense smoke, abrasive products, radioactive environments, long-term contact with water, exposure to chemicals or air charged with chemical particles, or other aggressive environments (for example, salty or alkaline environments).

5. Documents submitted by the manufacturer

The application was accompanied by the following documents:

- Technical Data Sheet
- Classification of reaction to fire in accordance with ČSN EN 13501-1:2019, Report No. PK-19-007 for aliminium thickness 0,21 mm, issued on 17.1.2019
- Classification of reaction to fire in accordance with ČSN EN 13501-1:2019, Report No. PK-22-095 for aliminium thickness 0,12 mm, issued on 13.6.2022
- Test report No. 16924-3/6 on tests of fire technical characteristics, issued on 15.11.2013
- Test report No. 16924-4/6 on tests of fire technical characteristics, issued on 15.11.2013
- Test report No. 22/P223 - Determination of ignitability of construction products, issued on 13.6.2022

6. Used technical regulations, standards, sources of scientific and technical knowledge, information gained by practical experience

The following documents were used to develop and issue this CTA:

- ČSN 73 0810	Fire protection of buildings – General requirements
- ČSN 73 0802	Fire protection of buildings. Non-industrial buildings
- ČSN 73 0831	Fire protection of buildings. Assembly rooms
- 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 ISO 11925-2	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
- EAD 210046-00-1201	Thin metal composite sheet
- EOTA TR 38	Assessment procedure for durability of thin metallic composite panels

- Act No. 283/2021 Coll., the Building Act, as amended.

- Regulation of MV No. 23/2008 Coll., on technical conditions of fire protection of buildings, as amended by Decree No. 268/2011 Coll. and No. 232/2023 Coll.

- Regulation of MV No. 246/2001 Coll., on establishing the conditions of fire safety and the performance of state fire supervision (decree on fire prevention), as amended by Regulation No. 221/2014 Coll. and Regulation No. 19/2021 Coll. and No. 377/2021 Sb.

- Regulation of the European Parliament and of the Council (EC) No. 1907/2006" as amended - Title VIII and Annex XVII (Restrictions on the production, placing on the market and use of certain dangerous substances, preparations and articles)

- Act No. 477/2001 Coll., on packaging, as amended in latter regulations

7. Product classification and conformity assessment in accordance with Government regulation 163

7.1. Product classification in accordance with Government regulation 163

According to the Annex 2 to Government regulation 163, the product belongs to the product category no. **11** *Construction products for internal and external finishing of walls, ceilings, floors,* subgroups **04** *External and internal cladding elements, boards, profiles, panels, facade cladding.*

7.2. Prescribed conformity assessment procedures

For products of Group 11, Sub-group 04 the Annex 2 of Government regulation 163 establishes the conformity assessment procedure under **§ 7** (verification of conformity). Under § 10 of Government regulation 163, at the request of the manufacturer or importer, this procedure may be replaced by the procedure under § 5 (certification).

7.3. Applied Technical Guidelines

Within its coordination activities, the Office for Standards, Metrology and Testing developed the Technical Guideline 11_04_16 for this product category. This Guideline served as the basis for definition of the scope of properties examined and methods of their measurement.

7.4. Deviations from the Technical Guideline

The technical guidance given in Article 7.3 of this Technical Certificate was applied partially. The product is not declared as thermal insulation. The manufacturer does not declare the product as a suspended ceiling in the sense of the harmonized standard ČSN EN 13964. For that reason, air sound insulation and thermal resistance were not assessed. The dimensions of the product were not assessed.

8. Specification of the technical properties with respect to the basic requirements and procedures of measurement

8.1. Basic requirements and specification of the technical properties

Specification of the technical properties examined with respect to the basic requirements is described in the second column of Table 1 in compliance with sections 7.3 and 7.4 above,

Table 1: Basic requirements and specification of the technical properties

No	Name of technical property	Testing procedure	Subject of the test	Quantity of samples		Required (declared) value:
				C/T	D	
1	Reaction to fire	ČSN EN 13501-1 ČSN EN ISO 11925-2	product sample	according to the test standard	-	**E**
2	Tensile strength perpendicular to the face - σ_{mt}	EAD 210046-00-1201, Annex A	product sample	5	3	**min. 4,0 MPa**
3	Bending strength -$R_{bend,INI}$: - four-point test arrangment	EAD 210046-00-1201, art. 2.2.4	product sample	6	3	**min. 40,0 MPa** for total panel thickness 2 mm and 3 mm, **min. 400,0 MPa** for total panel thickness 4 mm,
4	Durability - ΔR_h: - hygrothermal behaviour (8x 90°C/90% RH / -40°C)	EAD 210046-00-1201, art. 2.2.12.1 EOTA TR 38, art. 5.1	product sample	6	3	**min. 95 %**
5	Durability - ΔR_h: - Effect of freeze (8x 90°C/90% RH / -40°C)	EAD 210046-00-1201, art. 2.2.12.4 EOTA TR 38, art. 5.4	product sample	6	3	**min. 95 %**
6	Hard body impact resistance: - at temperature (23±2)°C	EAD 210046-00-1201, art. 2.2.9 ISO 7892	product sample	3	1	**No damage for E = 1 N.m** for total panel thickness 2 mm and 3 mm, **No damage for E = 3 N.m** for total panel thickness 4 mm,
7	Hard body impact resistance: - at temperature (-20±2)°C	EAD 210046-00-1201, art. 2.2.9 ISO 7892	product sample	3	1	**No damage for E = 1 N.m** for total panel thickness 2 mm and 3 mm, **No damage for E = 3 N.m** for total panel thickness 4 mm,

Note: ***C*** *– certification of product,* ***T*** *– type testing,* ***D*** *– supervision of the certified product*

8.2 Definition of the method of assessment of technical properties
The above table also contains a list of normative regulations used to define the method of assessment of individual monitored technical properties and the necessary number of samples for certification or type test (C/T) and supervision of the production control system and control of compliance with the specified requirements for products (D).

8.3. Required values of technical properties
Required values for the specified uses of the product in construction described in the Section 4.3. and 4.4. of this CTA were set for the separate properties. The values are given in the last column of the above table.

8.4. Other technical regulations related to the given product

The requirements of Act No. 477/2001 Coll., on packaging, as amended, apply to consumer, group and transport packaging of the product.

The product is also subject to Regulation (EC) 1907/2006, as amended (REACH), in particular Annex XVII, which establishes lists of hazardous chemical substances and hazardous chemical preparations, the placing on the market of which is prohibited or whose placing on the market, until circulation or use is restricted. The manufacturer may only apply additives (stabilizers, flame retardants, pigments, etc.) whose use is not restricted by the REACH Regulation.

9. Detailed requirements for assessment of factory production control system

The requirements for the production control system are set out in Annex 3 to the Government regulation 163, as amended, and are binding for the manufacturers of selected construction products.

9.1. Obligations of the manufacturer related to the Factory Production Control system

The manufacturer is required to set up a Factory Production Control system (hereinafter referred to as "FPC") so that all products it markets correspond to the technical documentation and meet the essential requirements.

The minimum scope of requirements for provision of the FPC by the manufacturer is provided in the following Table 2.

Table 2: Minimum scope of requirements for provision of the FPC

No.	Quality system area	Specifying requirements
1	Responsibility for manufacture	The manufacturer has delegated employees responsible for purchasing raw materials, materials and products affecting product quality, for production process control, inspection and testing, control, measurement and testing equipment, and for release of the product for shipment.
2	Responsibility for total quality control	A member of the management team responsible for total product quality control, including review and responsibility for corrective and preventive measures has been appointed.
3	Technological production process	The manufacturer has elaborated the technological process of manufacture in a sufficiently detailed manner. Current technological or manufacturing regulations are available at the appropriate work locations.

4	Technical specification	The manufacturer has established technical specifications and a detailed description of technical properties for the product, and a method of product use in the construction.
5	Record keeping	The manufacturer keeps records of the properties of initial raw materials, materials and products, production, production and inspection tests, gauge verification and calibration, and of complaints about product quality. The records are identifiable and legible and securely archived.
6	Production and handling equipment	The manufacturer ensures that the required production equipment is in good condition.
7	Inspection and testing	The manufacturer has drawn up an inspection and testing plan (incoming, in-process, outgoing inspection and testing). It carries out inspections and tests in accordance with this plan. Current inspection and testing procedures are available at appropriate places. The manufacturer keeps records of the tests and inspections performed.
8	Gauges used in the production, inspection and testing processes	The manufacturer has specified suitable gauges for the production, inspection and testing processes, keeps records of them and keeps them in good condition. The manufacturer keeps records of the verification and calibration of the measuring gauges in accordance with the Act on Metrology.
9	Product packaging and marking	The manufacturer has set up the process of packaging and marking of the products to the extent necessary to ensure compliance of the products with the specified requirements.
10	Storage spaces	The manufacturer has the necessary facilities for storing raw materials materials and products and for storing and dispatching of finished products.
11	Product usage instructions	The manufacturer has instructions for use and maintenance of the product in the Czech language.
12	Basic preventive measures	The manufacturer takes basic preventive measures (e.g. employee training for functions affecting product quality, use of quality records, and customer complaints).

9.2. Applicant's obligations related to factory production control system

The applicant is obliged to secure a product inspection method so that all products he distributes correspond to the technical documentation and meet the essential requirements.

In specified conformity assessment procedure, the applicant is obliged to secure assessment of the factory production control system by an authorized body at the manufacturer's premises or to perform inspections of the distributed products with respect to their conformity with technical documentation and essential requirements at his own or at contract laboratories, and to subject the system used to inspect the distributed products to an assessment by the authorized body.

When securing the assessment of the factory production control system at the production plant abroad, the minimum requirements specified in Table 2 are applied.

The minimum extent of the requirements for assurance of the inspection of the distributed products is shown in Table 3.

Table 3: Minimum scope of requirements for ensuring inspection of distributed products

No.	Quality system area	Specifying requirements
1	Inspection and testing	The applicant has elaborated a product inspection procedure making possible to distribute only those products that meet the technical specification. He shall perform the product inspection in conformity with these procedures and the elaborated inspection and testing plan. The personnel conducting the inspection shall meet the specified qualifications requirements and the applicant shall keep records thereof. The applicant shall duly maintain and store (archive) records of inspection and test results. Further, he shall keep records of complaints regarding the product. For testing of the products the applicant has specified meters that are subject to verification or calibration. He shall keep a record of them, take care of their correct state and shall use meters that are validly verified and calibrated.
2	Meters used for inspection and testing	The applicant has specified suitable meters to secure inspection and testing, shall keep a record of them and take care of their correct state. The applicant shall maintain and store properly records of verification and calibration of the meters according to the Metrology Act.
3	Storage space and handling equipment	The applicant shall have at his disposal appropriate space required for product storage and handling including storage equipment and shall pay attention to their correct state.
4	Technical properties of the product	The applicant shall have a detailed description of the product technical properties and a specification of the use of the product in the construction work.
5	Instructions for use of the product	The applicant has elaborated instructions for use and maintenance of the product in the Czech language.
6	Instructions and personnel requirements for product installation	The applicant conducts trainings of customer's and installation firms' employees aimed at correct product installation or provides them with detailed instructions in a written or audiovisual forms.

9.3. Responsibility for supervision of the factory production control system

9.3.1. Procedure according to Sections 7 of the Government Order No. 163 as amended – Conformity verification

In assessing by way of verification of conformity according to Section 7 the sole responsibility for implementation, documentation and operation of the factory production control system including internal supervisions lies with the manufacturer.

With respect to the Authorized Body, only the inspection mechanism based on tests of the product samples demonstrating conformity with the parameters and criterions specified in Article 6 of the present Construction Technical Approval shall be applied. After the test, the Authorized Body will issue a Test Report with a period of validity limited to 3 years.

Before termination of validity of the Test Report, the manufacturer shall request the Authorized Body that issued the Test Report to retest the product and issue a new Test Report containing current test results.

9.3.2. Procedure according to Article 5 of the Government Order No. 163 as amended – Certification

The sole responsibility for implementation, documentation and operation of the factory production control system lies with the manufacturer, in case of distribution of the construction products the responsibility for inspection of the distributed products lies with the distributor.

Manufacturer shall conduct tests of at least the following properties using his/her own means or shall have the tests performed by an accredited testing laboratory within the final (outgoing) inspection.

Samples shall be taken randomly by the manufacturer at the end of the manufacturing line.

Distributor has established with the supplier a contractual relationship guaranteeing deliveries of only those products that meet the requirements specified in Table 1 of the present CTA and ensures inspections of distributed products according to Table No. 3 of the present CTA.

Authorized body – within its participation in the conformity assessment process – shall conduct regular supervisions of the due operation of the FPC or of the proper functioning of the product inspection at the applicant and carry out a check of adherence to specified product requirements once a 12 months. Validity of the certificate and the possibility to continue distributing the products on the market are conditioned positive inspection results given in the report and handed over to the manufacturer or the applicant.

The authorized body shall select the scope of the supervision over the operation of the factory production control system so that all elements of the factory production control system specified in Section 9.1 and 9.2 are verified over the period of three years.

In the course of the supervision, procedure according to Section 5, a worker of the authorized body shall take samples from the manufacturer or the applicant in the amounts of which are given in column "D" of Table in Section 8.1, in order to check whether the specified requirements have been met. The check shall be based on tests performed by laboratories of the authorized body. The product characteristics tested shall be at least those shown below:

- Hard body impact resistance at temperature (23±2)°C

10. Verification tests

The results of the verification tests carried out by the authorized person of AO 224 in its testing laboratory are given in the Report of the verification of conformity of product type No. 785200482/2025, issued on 01.08.2025.

Elaborated by: Mrs. Lenka Lazareva