



## TEST REPORT

### ref. No. 785200494-02

**Client:** Institut pro testování a certifikaci, a.s.  
Certifikace stavebních výrobků, Ing. Lenka Lazareva

**Address:** třída Tomáše Bati 299, Louky, 763 02 Zlín

**Issued for:** DENCOP LIGHTING spol. s r.o. IČ: 25566130  
Tečovská 1122, Zlín – Malenovice, 763 02 Czech Republic

**Subject of the test:** ALP Bond A2

**Sample received on:** September 5, 2025

**Tested:** From November 6, 2025 to December 11, 2025


**Report elaborated by:** Ing. Radim Mikač

**Place and date of issue:** Zlín, December 22, 2025

**Annex:** -

  
Ing. Jiří Růžička  
Head of Construction Testing Laboratory Zlín



  
Ing. Petra Hrdinová  
Head of Testing Laboratory

**Note: The results given in this Test Report apply only to the sample tested as received!**  
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**Subject of the test:**

**Table No. I – Description and identification of the test Subject**

ITC's identification number	Identification of the test Subject/sample by client	Description
785200494/1	ALP Bond A2 – composite cladding panel	Test specimens with a diameter of 50 mm, test specimens with dimensions (400 x 100) mm and (600 x 600) mm

**Sampling method used:**

The test sample was collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling. The results refer to the sample as received.

**Work requested:**

Tensile strength perpendicular to the face, bending performance in four-point test arrangement, hard body impact resistance, bending performance in four-point test arrangement after hygrothermal behaviour and bending performance in four-point test arrangement after of freeze – thaw cycles

**Testing method used:**

1. Determination of the tensile strength perpendicular to the face according to EAD 210046-00-1201, annex A
2. Determination of bending performance in four-point test arrangement according to EAD 210046-00-1201, clause 2.2.4.1
3. Determination of hard body impact resistance according to EAD 210046-00-1201, clause 2.2.9 with reference to ČSN EN ISO 7892
4. Determination of durability - hygrothermal behaviour according to EAD 210046-00-1201, clause 2.2.12.1 with reference to TR 38, clause 5.1
5. Determination of durability – effect of freeze – thaw cycles according to EAD 210046-00-1201, clause 2.2.12.4 with reference to TR 38, clause 5.4

**Test conditions:**

1. 5 test specimens with diameter (50 ± 0.3) mm, metal plate, test speed 5 mm/min, tested on November 6, 2025
2. 6 test specimens with dimensions (400 x 100) mm, four-point arrangement, distance between supports 300 mm, test speed 5 mm/min, tested at (23 ± 2) °C and (50 ± 5) % relative humidity, tested on December 10, 2025
3. Test specimens with dimension (600 x 600) mm, test temperatures 23 °C and (-20) °C, conditioning at test temperature 24 hours, tested on December 11, 2025
4. 6 test specimens with dimensions (400 x 100) mm, four-point arrangement, 1 cycle: exposure 90 °C and 90 % relative humidity along 1 hour, decrease of temperature to (-40) °C along 2.5 hours, exposure to temperature (-40) °C along 1 hour and increase of temperature and humidity up to 90 °C and 90 % relative humidity along 1.5 hours; total 6 hours/1 cycle, total cycle: 8; distance between supports 300 mm, test speed 5 mm/min, tested at (23 ± 2) °C and (50 ± 5) % relative humidity, tested on December 10, 2025
5. 6 test specimens with dimensions (400 x 100) mm, four-point arrangement, 1 cycle: full immersion in water bath for 8 hours at (20 ± 2) °C, decrease to (-20 ± 2) °C for 2 hours and exposure to -20 ± 2) °C for 14 hours; total 24 hours/1 cycle, total cycles: 50; distance between supports 300 mm, test speed 5 mm/min, tested at (23 ± 2) °C and (50 ± 5) % relative humidity, tested on December 10, 2025

*The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by the standard/standards and not given in this Test Report are available at a request at the Laboratory.*

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**Testing laboratory:**

The test was performed in the workplace no.2: Třída Tomáše Bati 5264, areal Svit, Building No. 113, 760 01 Zlín

**Test results:**

The test results are given in the following table:

**Table No. II – ALP Bond A2 – composite cladding panel, Sample No. 785200494/1**

Characteristics measured	Unit	Separate values	Test results	Uncertainty <sup>1)</sup>
Tensile strength perpendicular to the face <sup>2)</sup>	MPa	3.31; 3.64; 3.28; 3.44; 3.49	3.43	0.18
Bending strength $R_{bend,INI}$	MPa	59.3; 63.7; 60.9; 61.6; 57.2; 62.5	60.9	2.3
Bending modulus of elasticity $E_{bend}$	GPa	44.6; 46.3; 47.2; 47.4; 45.1; 46.3	46.1	1.3
Hard body impact resistance at 23 °C	-	Impact energy 1 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 9 mm Impact energy 3 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 13 mm Impact energy 5 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 16 mm Impact energy 10 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 18 mm	-	-

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**Continuation of Table No. II – ALP Bond A2 – composite cladding panel, Sample No. 785200494/1**

Characteristics measured	Unit	Separate values	Test results	Uncertainty <sup>1)</sup>
Hard body impact resistance at (-20) °C	-	Impact energy 1 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 11 mm  Impact energy 3 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 14 mm  Impact energy 5 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 20 mm  Impact energy 10 Nm – test specimens without damage. At the point of impact, an indentation with a diameter of 26 mm	-	-
Bending strength $R_h$ after hygrothermal behaviour	MPa	57.3; 62.5; 59.7; 63.5; 62.9; 57.4	60.6	2.6
Bending modulus of elasticity $E_h$ after hygrothermal behaviour	GPa	46.6; 46.0; 47.1; 46.4; 46.1; 46.3	46.4	1.0
Description of damage to test specimens after hygrothermal behaviour	-	The test specimens showed no damage after hygrothermal behaviour	-	-
Relative change in bending strength after hygrothermal behaviour $\Delta R_h$	%	99.5	-	-
Bending strength $R_{ft}$ after freeze – thaw cycles	MPa	62.8; 61.9; 59.7; 64.8; 54.4; 58.8	60.4	3.3
Bending modulus of elasticity $E_{ft}$ after freeze – thaw cycles	GPa	45.2; 46.6; 46.8; 46.5; 46.1; 46.7	46.3	1.1
Description of damage to test specimens after freeze – thaw cycles	-	The test specimens showed no damage after freeze – thaw cycles	-	-
Relative change in bending strength after freeze – thaw cycles $\Delta R_{ft}$	%	99.2	-	-

<sup>1)</sup> expanded uncertainty for coverage factor  $k = 2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%

<sup>2)</sup> In all measurements, a failure occurred between the plate and the ALP Bond A2

..... End of the test report.....

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