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[Logo]

CONSTRUCTION PRODUCTS TESTING LABORATORY (CPTL)
Stara Zagora, 2 Industrialna str.
The Executive Agency "Bulgarian Accreditation Service" (EA BAS) is a EA MLA party

Accreditation Certificate Reg. No. 252 LI / 26.09.2019 valid till 18.06.2022
issued by EA BAS in accordance with BDS EN ISO/IEC 17025:2018

Stamp: EA BAS
Reg. No. 252 LI
Testing Laboratory

TEST REPORT
No. 1 26 0343 / 20.02.2020

1. Test Sample: Ladder – Wooden Folding Ladder. Manufacturer: "Renovation Europe" EOOD
(name, product description, unique identification, condition)

2. Applicant: Renovation Europe EOOD, 1360 Sofia, 1 Yanaki Mollov str.
(applicant's name, address and contact information)

3. Testing Application: No. 2-0125 / 18.02.2020, no sampling protocol by CPTL
(application number and date; the number and date of the sampling protocol when performing the sampling for testing)

4. Testing Location: CPTL
(place of carrying out the laboratory activities)

5. Test Method(s):
BDS EN 131-1:2016 Ladder. Part 1: Terms, types, functional sizes
BDS EN 131-2:2010+A2:2017 Ladders - Part 2: Requirements, testing, marking
(Identification)

6. Date of receipt of the test sample in the laboratory: 18.02.2020 – 1 pcs wooden folding ladder with 8 steps

7. Testing Date: 19.02.2020

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Head of Testing Laboratory: *Signature –*

ill.

(Ing. Hr. Angelova)
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8. Test Results:

No.	Test Name / Characteristic	Testing Measurement	Test Method	Sample No. acc. to the Log	Test Results (uncertainty)	Environmental Conditions
1	2	3	4	5	6	7
1.	**Functional Sizes**					
1.1	Usable width of uppermost step - b_1	mm	BDS EN 131-1:2016	0237-0	**290**	t^o=(23±0.2)°C RH=(52±1)%
1.2	Distance from the lowest step to the lower end of the ladder - l_4				**302**	
1.3	Angle of inclination of the stepping part - α	degree			**72**	

BDS EN 131-1, item 4.3

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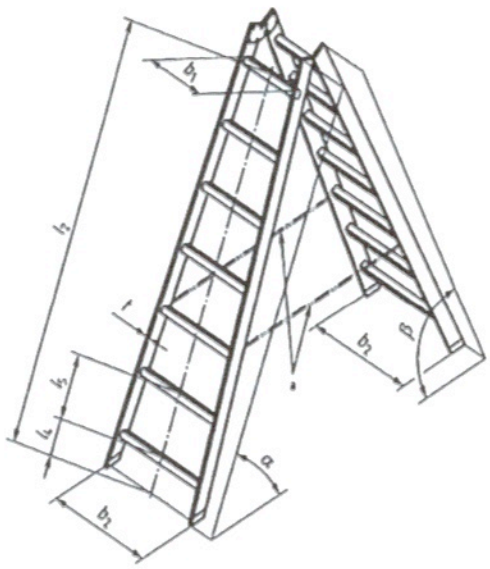

9. Declaration of conformity of the test results with the limit values: in accordance with the annexes to the Report
10. Additions, deviations or exceptions to the test method: none

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11. Further information required by the specific method: none

NOTE I: The test results apply only to the test samples.
NOTE II: The test report may only be reproduced in its entirety or with the written permission of the laboratory.
NOTE III: The laboratory is not responsible for sampling when provided by the customer - the results relate only to the sample provided by an external source.

Tests performed by: *Signature – ill. ill.*

(A. Luskov)

Head of Testing Laboratory: *Signature –*

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END

Annex 1 to Test Protocol No. 1 26 0343 / 20.02.2020
Compliance Reporting

1. Compliance description: **Functional sizes (Usable width of uppermost step-b_1)**, test result is 290 mm.
2. Compliance specification / standard : BDS EN 131-1: 2016 item 4.3, table 3
3. Specification / standard limit: lower limit - 280 mm
4. Decision rule:

The decision rule for declaring compliance with a lower limit of certain specification / standard is:

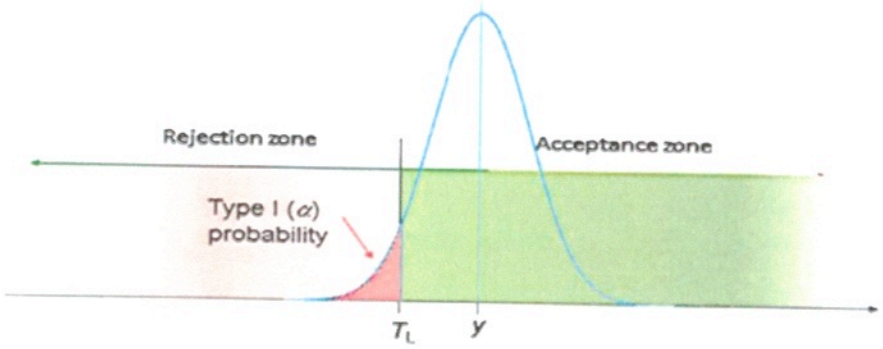

Figure 3

There is compliance / acceptance if the hypothesis $H_0 : P(y \geq T_L) \geq (1 - \alpha)$ is correct.
There is no compliance / rejection if the hypothesis $H_0 : P(y \geq T_L) < (1 - \alpha)$ is incorrect.

The presentation in expression is: $P_C = \Phi\left(\frac{y - T_L}{u(y)}\right)$

Where:
Pc – probability of compliance
$(1 - \alpha) = 0{,}95$ (Confidence interval approx. 95%), i.e. mistake $\alpha = 0{,}05$ (5%)
T_L – lower specification / standard limit = 280 mm
y – test result = 290 mm
u(y) combined standard uncertainty of baseline assessment = 0.1 mm

The value of $\Phi\left(\frac{y - T_L}{u(y)}\right)$ can be obtained using tables with a standard normal PDF or software that has functions to perform this type of calculation, for example: MS Excel function NORMDIST (x, medium, standard deviation, cumulative). The function is calculated by entering values in the line

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= NORMDIST (y:T_L:u(y):TRUE)

5. Result: Pc = 1 > 0.95

The hypothesis H_0 is correct and the decision is for **compliance**.

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END

Annex 2 to Test Protocol No. 1 26 0343 / 20.02.2020
Compliance Reporting

1. Compliance description: **Functional sizes (Distance from the lowest step to the lower end of the ladder - l_4)**, test result is 302 mm.
2. Compliance specification / standard : BDS EN 131-1: 2016 item 4.3, table 3
3. Specification / standard limit:
lower limit – min (0.5* l_5) mm = 183 mm
upper limit – max (l_5+15) mm = 381 mm
4. Decision rule:
Decision rule for declaring compliance at a given bilateral interval - lower and upper limits of specification / standard is:

There is compliance / acceptance if the hypothesis H_0 :
Pc ($T_L \leq y \leq T_U$) ≥ (1 - α) is correct.
There is no compliance / rejection if the hypothesis H_0 :
Pc ($T_L \leq y \leq T_U$) < (1 - α) is incorrect.

$$P_C = \Phi\left(\frac{T_U - y}{u(y)}\right) - \Phi\left(\frac{T_L - y}{u(y)}\right)$$

Where:
Pc – probability of compliance
(1 – α) = 0,95 (Confidence interval approx. 95%), i.e. mistake α = 0,05 (5%)
T_L – lower specification / standard limit = 183 mm
T_U – upper specification / standard limit = 381 mm
y – test result = 302 mm
u(y) combined standard uncertainty of baseline assessment = 0.075 mm

The function $\Phi\left(\frac{T_U - y}{u(y)}\right)$ is calculated using MS Excel, by entering values in the line

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= NORMDIST (TU:y:u(y):TRUE)

The function $\Phi\left(\frac{T_L - y}{u(y)}\right)$ is calculated using MS Excel, by entering values in the line
= NORMDIST (TL:y:u(y):TRUE)

5. Result: Pc = 1 > 0.95
The hypothesis H_0 is correct and the decision is for **compliance**.

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END

Annex 3 to Test Protocol No. 1 26 0343 / 20.02.2020
Compliance Reporting

1. Compliance description: **Functional sizes (Angle of inclination of the stepping part - α)**, test result = 72°.
2. Compliance specification / standard : BDS EN 131-1: 2016 item 4.3, table 3
3. Specification / standard limit:
lower limit – min 65°
upper limit – max 75°
4. Decision rule:
Decision rule for declaring compliance at a given bilateral interval - lower and upper limits of specification / standard is:

There is compliance / acceptance if the hypothesis H_0 : Pc ($T_L \leq y \leq T_U$) ≥ (1 - α) is correct.

There is no compliance / rejection if the hypothesis H_0 : Pc ($T_L \leq y \leq T_U$) < (1 - α) is incorrect.

$$P_C = \Phi\left(\frac{T_U - y}{u(y)}\right) - \Phi\left(\frac{T_L - y}{u(y)}\right)$$

Where:
Pc – probability of compliance
(1 – α) = 0,95 (Confidence interval approx. 95%), i.e. mistake α = 0,05 (5%)
T_L – lower specification / standard limit = 65°
T_U – upper specification / standard limit = 75°
y – test result = 72°
u(y) combined standard uncertainty of baseline assessment = 0.375°

The function $\Phi\left(\frac{T_U - y}{u(y)}\right)$ is calculated using MS Excel, by entering values in the line
= NORMDIST (TU:y:u(y):TRUE)

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The function $\Phi\left(\frac{T_L - y}{u(y)}\right)$ is calculated using MS Excel, by entering values in the line
= NORMDIST (TL:y:u(y):TRUE)

5. Result: Pc = 1 > 0.95

The hypothesis H_0 is correct and the decision is for **compliance**.

Head of Testing Laboratory: *Signature – ill.*
(Ing. Hr. Angelova)
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END

The undersigned, Svetlana Simeonova Sayvanska, verify the correctness of the translation made by me from Bulgarian into English of the attached document. The translation consists of 5 pages.
Translator: Svetlana Simeonova Sayvanska

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