

DRRR GmbH · Bodmanstraße 4 · D-87435 Kempten

**Mr Jan Nowak**  
BOSMAL AR&DI Ltd  
Material Testing Department  
Sarni Stok 93  
43-300 Bielsko-Biala  
Poland

Date: 28.09.2018

Your contact person:  
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## Report of DRRR-Proficiency Testing RVEP 180158 Notched Charpy impact ISO 179-1 (1eA)

Dear Mr Jan Nowak

Thank you very much for participating in our proficiency testing.

Your lab code number is: **46**

We offer the test material of this proficiency testing as a reference material. If you are interested, we would be very pleased to submit you our offer.

### Registration for 2019 - order online

We hope that we will meet your laboratory in the proficiency testing 2019 again. You can already register for the next year's program, using our online system ([ODIN](#)).

The new developments for next year will be available/bookable with our catalogue in October/November 2018. We'll keep you updated and get back to you once the complete program is available.

If our current program does not meet your requirements we welcome your suggestions for new proficiency testing ([info@drrr.de](mailto:info@drrr.de)).

For questions do not hesitate to contact us.

Yours sincerely



Thorsten Helbig

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Commercial Registry: HRB 9496  
Local court: Kempten  
Managing Director: Dr. rer. nat. Ulrich Leist,  
Thorsten Helbig M.Eng.

# CERTIFICATE FOR PARTICIPATION

## DRRR Proficiency Testing

The participant

BOSMAL AR&DI Ltd  
Material Testing Department  
Sarni Stok 93  
43-300 Bielsko-Biala  
Poland

*Customer number: 13486*

has participated

**with great success**

in the above announced quantitative proficiency testing  
with the lab code number: **46**

*To the above mentioned proficiency testing the corresponding report contains the  
statistical evaluations*

Kempton, 28. September 2018



Thorsten Helbig

### Valuation:

If the mean of z'-scores of all evaluated results is smaller than 2 or equal and single z'-scores are smaller than 2 or equal you will get the valuation: „...**has participated with great success**“

If the mean of z'-scores of all evaluated parameter is smaller than 2 or equal but at least one single z'-score is higher than 2 you will get the valuation: „...**has participated with success**“

If the mean of z'-scores of all evaluated results is higher than 2 you will get the valuation: „...**has participated**“

## Summary of your lab performance according to the reference methods

For your company

**BOSMAL AR&DI Ltd** Material Testing Department

with the customer number **13486** and the lab code number **46**

parameter	number of z'-scores	mean of z'-scores	number of z'-scores > 2	Over all evaluation
				<p>If the mean of z'-scores of a parameter is smaller than 2 or equal you will get the valuation:</p> <p><i>"You performed very well. Keep your performance."</i></p> <p>If the mean of z'-scores of a parameter is smaller than 2 or equal but at least one single z'-score is higher than 2 you will get the valuation:</p> <p><i>"You performed well. In particular cases you showed potential for improvement."</i></p> <p>If the mean z'-score of a parameter is higher than 2 you will get the valuation:</p> <p><i>"You showed potential for improvement of your performance."</i></p>
Notched Charpy impact	2	1,52	0	You performed very well. Keep your performance.

To the above mentioned proficiency testing the corresponding report contains the statistical evaluations

### Valuation:

In this summary all your z'-score are selected for the evaluation. The z'-scores refer to the reference method.

*If you did not use the reference method the results might be very strictly. For routine reports we do not generate a performance summary for all used methods. In particular cases we can generate you a special performance summary with your used method. Do not hesitate to contact us!*