Organisme belge d'Accréditation
Belgische Accreditatieinstelling
Belgische Akkreditierungsstelle
Belgian Accreditation Body

Signatory to EA, ILAC and IAF
Multilateral Agreements

Accreditation Certificate No. 004-CAL

In compliance with the provisions of the Royal Decree of 31 January 2006 setting up BELAC, the Accreditation Board hereby declares, that the calibration laboratory

TRESCAL NV
Vosstraat, 200
2600 BERCHEM - Belgium

has the competence to perform the calibrations as described in the annex which is an integral part of the present certificate, in accordance with the requirements of the standard EN ISO/IEC 17025:2005. The present accreditation is the subject of regular surveillance in order to confirm the compliance with the accreditation conditions.

The Chair of the Accreditation Board BELAC,

Issue date : **2018-10-11**

Validity date : **2023-04-21**

Nicole MEURÉE-VANLAETHEM

Original version of this certificate is in Dutch.

E6-0040

Bijlage bij accreditatie-certificaat
Annexe au certificat d'accréditation
Annex to the accreditation certificate
Beilage zur Akkreditierungszertifikat

004-CAL

EN ISO/IEC 17025:2005

Versie/Version/Fassung	16
Uitgiftedatum / Date d'émission / Issue date / Ausgabedatum:	2018-10-11
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Nicole Meurée-Vanlaethem
Voorzitster van het Accreditatiebureau
La Présidente du Bureau d'Accréditation
Chair of the Accreditation Board
Vorsitzende des Akkreditierungsbüro

De accreditatie werd uitgereikt aan/ L'accréditation est délivrée à/
The accreditation is granted to/ Die akkreditierung wurde erteilt für:

TRESCAL nv
Vosstraat, 200
2600 BERCHEM

Voor activiteiten uitgevoerd door/ Pour des activités exécutés par/
For activities performed by/ Die tätigkeiten werden durchgeführt von:

locatie 1	**BERCHEM**	**Vosstraat, 200** **2600 Berchem**
locatie 2	**WELLIN**	**Rue Jean Meunier, 2** **6920 Halma (Wellin)**

BELAC 6-017 code	PRESSURE AND VACUUM (Berchem)

1.8.1 Gas pressure

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Gauges, digital indicators, plotters, calibrators, liquid column, transmitters, transducers and pressure balances for relative and absolute[1] pressures	0 Pa to 4800 Pa	$1 \times 10^{-4} \times p$ minimum 0,03 Pa	By comparison with a low pressure standard
	-100 kPa to -1,5 kPa	$80 \times 10^{-6} \times p$	By comparison with a gas pressure balance
	1,5 kPa to 5,0 kPa	$80 \times 10^{-6} \times p$	
	5,0 kPa to 350 kPa	$20 \times 10^{-6} \times p$	
	5,0 kPa to 1,9 MPa	$26 \times 10^{-6} \times p$	
	1,9 MPa to 7,6 MPa	$30 \times 10^{-6} \times p$	
	7,6 MPa to 12 MPa	$70 \times 10^{-6} \times p$	
Barometers	5,0 kPa to 350 kPa abs	$20 \times 10^{-6} \times p$	By comparison with a gas pressure balance
Piston/cilinder combination (effective area)[2]	5,0 kPa to 350 kPa	$20 \times 10^{-6} \times p$	By comparison with a gas pressure balance
	350 kPa to 1,9 MPa	$25 \times 10^{-6} \times p$	
	1,9 MPa to 7,6 MPa	$30 \times 10^{-6} \times p$	
	7,6 MPa to 12 MPa	$70 \times 10^{-6} \times p$	

1 For absolute pressures the uncertainty of the atmospheric pressure is added to the uncertainty (except when working with an absolute pressure balance)
2 The masses can be calibrated in our mass laboratory

1.8.2 Liquid pressure

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Gauges, digital indicators, plotters, calibrators, liquid column, transmitters, transducers and pressure balances for relative and absolute[1] pressures	0,30 MPa to 2,5 MPa	$65 \times 10^{-6} \times p$	By comparison with a liquid pressure balance
	2,5 MPa to 100 MPa	$30 \times 10^{-6} \times p$	
	100 MPa to 120 MPa	$70 \times 10^{-6} \times p$	
	120 MPa to 400 MPa	$250 \times 10^{-6} \times p$	
Piston/cilinder combination (effective area)[2]	0,30 MPa to 2,5 MPa	$65 \times 10^{-6} \times p$	By comparison with a liquid pressure balance
	2,5 MPa to 100 MPa	$30 \times 10^{-6} \times p$	
	100 MPa to 120 MPa	$70 \times 10^{-6} \times p$	

1 For absolute pressures the uncertainty of the atmospheric pressure is added to the uncertainty (except when working with an absolute pressure balance)
2 The masses can be calibrated in our mass laboratory

1.8.3 Vacuum quantities

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Absolute pressure	1 Pa to 5 kPa	$2 \times 10^{-2} \times p$	By comparison with capacitive pressure indicators
	1 mPa to 1 Pa	$2,5 \times 10^{-2} \times p + 5$ mPa	

In Situ

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Relative pressures	20 kPa to 60 MPa	$1 \times 10^{-3} \times p$	By comparison with digital pressure indicators
Absolute pressures	20 kPa to 60 MPa abs.	$1 \times 10^{-3} \times p$	