



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,

A handwritten signature in black ink, appearing to read 'Nicole MEURÉE-VANLAETHEM', is written over a faint circular stamp.

Nicole MEURÉE-VANLAETHEM

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

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

Original version of this certificate is in Dutch.



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
Geldigheidsdatum / Date limite de validité / Validity date / Gültigkeitsdatum:	2023-04-21

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)

Secrétariat:
**Service public fédéral, Economie,
P.M.E., Classes moyennes et Energie**
Direction générale de la Qualité et de la Sécurité
Division Qualité et Innovation
Bd du Roi Albert II, 16 - 5^{ème} étage - B-1000 Bruxelles
Website: <http://economie.fgov.be>
Numéro d'entreprise: 0314.595.348

Accréditation B E L A C Accreditation

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Secretariaat:
**Federale Overheidsdienst, Economie,
K.M.O., Middenstand en Energie**
Algemene Directie Kwaliteit en Veiligheid
Afdeling Kwaliteit en Innovatie
Koning Albert II-laan 16 - 5^{de} verd. - B-1000 Brussel
Website: <http://economie.fgov.be>
Ondernemingsnummer: 0314.595.348

.be

TIME AND FREQUENCY (Berchem, In House or In Situ)

1.4.2 Relative time

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Tachometers, stroboscopes (optical)	1,2 rpm to 100 000 rpm	$3,0 \times 10^{-7} \times n$	
Mechanical tachometers	10 rpm to 17 000 rpm	$0,050 \text{ rpm} + 10 \times 10^{-5} \times n$	

n: number of rotations in rpm

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Frequencymeters, frequencygenerators, counters	1 Hz	$5,0 \times 10^{-11} \times f$	<ul style="list-style-type: none"> • generate • fixed points • CMC calculated at 600 s measuring time
	1 MHz	$5,0 \times 10^{-11} \times f$	
	5 MHz	$5,0 \times 10^{-11} \times f$	
	10 MHz	$5,0 \times 10^{-11} \times f$	
	0,002 Hz to 3 GHz	$6,0 \times 10^{-11} \times f$	<ul style="list-style-type: none"> • measure • CMC calculated at 600 s measuring time
0,002 Hz to 4 GHz	$5,0 \times 10^{-9} \times f$	<ul style="list-style-type: none"> • generate • CMC calculated at 600 s measuring time 	

Measured quantity, instrument or gauge	Range	CMC (95%)	Remarks
Electronic chronometers	n.a.	0,10 s / 24 h	direct measurement
Mechanic chronometers	n.a.	5,0 s / 24 h	direct measurement
Elektronic & mechanic chronometers	Standard 0 h to 72 h	0,50 s / 24 h with a minimum van 0,30 s	By comparison with a standard chronometer via a digital-optical recorder
Signal-triggered chronometers	Standard 0 h to 72 h	0,15 s / 24 h with a minimum van 0,060 s	By comparison with a standard chronometer via a digital-optical recorder