

**OIML Member State**  
The Netherlands

Number R60/2000-NL1-16.35  
Project number 16200636  
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|                                      |  |
|--------------------------------------|--|
| Issuing authority                    | NMi Certin B.V.<br>Person responsible: C. Oosterman                      |
| Applicant and Manufacturer           | Flintec GmbH<br>Bemannsbruch 9<br>74909 Meckesheim<br>Germany            |
| Identification of the certified type | A <b>compression load cell</b> , with strain gauges<br>Type : CC1, CC1-T |
| Characteristics                      | See next page  |

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R60** - Edition 2000 (E) for accuracy class D

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
20 December 2016



C. Oosterman  
Head Certification Board

NMi Certin B.V.  
Hugo de Grootplein 1  
3314 EG Dordrecht  
the Netherlands  
T +31 78 6332332  
certin@nmi.nl  
www.nmi.nl

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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- No. NMI-16200636-01 dated 7 December 2016 that includes 51 pages.

**Characteristics of the load cell:**

|  |                                   |
|--|-----------------------------------|
| Maximum capacity ( $E_{max}$ )                                       | 13,6 t up to and including 68,0 t |
| Minimum dead load  | 0 kg                              |
| Accuracy Class   | D                                 |
| Rated Output   | $2,00 \pm 0,01$ mV/V              |
| Maximum number of load cell intervals (n)                            | 1000                              |
| Ratio of minimum LC Verification interval<br>$Y = E_{max} / V_{min}$ | 3000                              |
| Ratio of minimum dead load output return<br>$Z = E_{max} / (2 * DR)$ | 3000                              |
| Input impedance  | $800 \Omega \pm 50 \Omega$        |
| Temperature range  | -10 °C / + 40 °C                  |
| Fraction $p_{LC}$  | 0,7                               |
| Humidity Class   | CH                                |
| Safe overload  | 200 % of $E_{max}$                |
| Output impedance   | $700 \Omega \pm 3,5 \Omega$       |
| Recommended excitation   | 5 V AC / DC                       |
| Excitation maximum   | 15 V AC / DC                      |
| Transducer material  | Stainless steel                   |
| Atmospheric protection   | IP68 / IP69K                      |

The characteristics for  $n_{max}$  and Y can be reduced separately.

Each produced load cell is provided with an accompanying document with information about its characteristics.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the MAA Declaration of Mutual Confidence:

- R 60 DoMC-01 rev.0, Additional requirements from the United States;
- R 60 DoMC-02 rev.0, Additional requirements from the United States.