



Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R60/2000-GB1-05.05  
Revision 1

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**  
Address: **Stanton Avenue  
Teddington  
Middlesex  
TW11 0JZ  
United Kingdom**

Person responsible: **Paul Dixon – Business Team Manager, Type Approval & Testing.**

Applicant

Name: **Applied Weighing International Ltd**  
Address: **Unit 5 Southview Park  
Marsak Street  
Caversham  
Berkshire  
RG4 5AF  
United Kingdom**

Manufacturer of the certified pattern is:

**The applicant**

Identification of the certified pattern:

**Aluminium single ended shear beam (bending) strain gauge load cell**

|  |                                      |
|--|--------------------------------------|
| Model Designation                                | AW641                                |
| Maximum capacity, $E_{max}$                      | 120, 150, 200, 250, 300, 500, 600 kg |
| Accuracy class                                   | C3                                   |
| Maximum number of load cell intervals, $n_{max}$ | 3000                                 |
| Minimum verification interval, $V_{min}$         | 0.01 kg                              |
| Apportionment factor; $p_{LC}$                   | 0.7                                  |

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This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology -OIML):

**R 60** *Metrological regulation for load cells* Edition: 2000 (E) for accuracy class : C3

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

The conformity was established by tests described in the associated NWML test report, N° TR: 00498 which includes 22 pages.

Issuing authority

CIML member



Mr P R Dixon  
for NWML



Dr J W Llewellyn

Date 19 January 2006  
Ref: T1136/0002

**Table 1: Essential technical data**

| <i>Model designation</i>                                       | <i>Designation</i>    | <i>Value</i>                         | <i>Units</i> |
|--|-----------------------|--------------------------------------|--------------|
| Classification   |                       | C3                                   |              |
| Additional marking   |                       | NH                                   |              |
| Maximum number of load cell verification intervals             | $n_{LC}$              | 3000                                 |              |
| Maximum capacity   | $E_{max}$             | 120, 150, 200, 250,<br>300, 500, 600 | kg           |
| Minimum dead load, relative                                    | $E_{min}/E_{max}$     | 0                                    | %            |
| Relative $V_{min}$ (ratio to minimum LC verification interval) | $Y = E_{max}/V_{min}$ | 12000                                |              |
| Relative DR (ratio to minimum dead load output return)         | $Z = E_{max}/(2*DR)$  | 7407                                 |              |
| Rated output   |                       | 2.02                                 | mV/V         |
| Maximum excitation voltage                                     |                       | 15                                   | V dc         |
| Input impedance (for strain gauge LCs)                         | $R_{LC}$              | 413.9                                | $\Omega$     |
| Temperature rating   |                       | -10/+40                              | $^{\circ}C$  |
| Safe overload, relative  | $E_{lim}/E_{max}$     | 150                                  | %            |
| Cable length   |                       | 3                                    | m            |
| Additional characteristics                                     |                       | 4 wire + screen                      |              |

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