



**Australian Government**  

---

**National Measurement  
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Cancellation  
Certificate of  
Approval No 6/10B/55**

Issued by the Chief Metrologist under Regulation 60  
of the  
National Measurement Regulations 1999

This is to certify that the approval for use for trade granted in Certificate of Approval  
No 6/10B/55 issued in respect of the

Heavy Capacity Weighing Machines Model KD30 Weighing Instrument

submitted by A1 Weighing Equipment Pty Ltd  
(formerly Heavy Capacity Weighing Machines Pty Ltd)  
31 Mort Street  
Toowoomba QLD 4350

has been cancelled in respect of new instruments as from 1 January 2006.

Signed by a person authorised by the Chief Metrologist  
to exercise his powers under Regulation 60 of the  
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.



# Australian Government

---

## National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

### Certificate of Approval

**No 6/10B/55**

Issued under Regulation 60  
of the  
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the

Heavy Capacity Weighing Machines Model KD30 Weighing Instrument

submitted by A1 Weighing Equipment Pty Ltd  
(formerly Heavy Capacity Weighing Machines Pty Ltd)  
31 Mort Street  
Toowoomba QLD 4350.

**NOTE:** This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 July 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/10B/55 and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document NSC P 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

The pattern as approved herein or with substitute Commission-approved load cells and/or indicators and in other capacities, or with different platform sizes, shall comply with General Certificate No 6B/0.

Note: New instruments manufactured under this approval shall only use load cells and/or indicators with current NSC supplementary certificates.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

### DESCRIPTIVE ADVICE

**Pattern:** re-approved 12 September 2000

- A Heavy Capacity Weighing Machines model KD30 weighing instrument of 30 000 kg maximum capacity.

Technical Schedule No 6/10B/55 describes the pattern.

**Variation:** approved 24 October 2003

1. Platform weighing instruments in capacities from 15 000 kg up to 149 999 kg.

Technical Schedule No 6/10B/55 Variation No 1 describes variation 1.

FILING ADVICE

Certificate of Approval No 6/10B/55 dated 19 September 2000 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/10B/55 dated 27 October 2003

Technical Schedule No 6/10B/55 dated 19 September 2000 (incl. Test Procedure)

Technical Schedule No 6/10B/55 Variation No 1 dated 27 October 2003

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to be 'J. H. B.', is written on a light-colored rectangular background.

TECHNICAL SCHEDULE No 6/10B/55

**Pattern:** Heavy Capacity Weighing Machines Model KD30 Weighing Instrument.

**Submitter:** Heavy Capacity Weighing Machines Pty Ltd  
31 Mort Street  
Toowoomba QLD 4350.



**1. Description of Pattern**

A Heavy Capacity Weighing Machines model KD30 self-indicating platform weighing instrument of 30 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

**1.1 Basework**

The model KD30 basework has the platform directly supported by four load cells.

**1.2 Load Cells**

Four Molen model CSP-M-25t-SC-SS load cells of 25 000 kg capacity are used.

The load cells are also described in the approval documentation of NSC approval No S133B.

**1.3 Indicator**

A Gedge Systems model GS1650Mk3 digital indicator is used.

The indicator is also described in the approval documentation of NSC approval No S193B.

**1.4 Markings**

Instruments are marked with the following:

Manufacturer's mark, or name written in full	Heavy Capacity Weighing Machines
Indication of accuracy class	Ⓜ
Maximum capacity	Max ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ..... kg *
Serial number of the instrument	.....
Pattern approval mark for the instrument	NSC No 6/10B/55
Pattern approval mark for the indicator	NSC No S....
Pattern approval mark for the load cells	NSC No S....

\* These markings shall also be repeated adjacent to each reading face, if they are not already located there.

### **1.5 Verification/Certification Provision**

Provision is made for the application of a verification/certification mark.

### **1.6 Sealing Provision**

Provision is made for the calibration adjustments in the indicator to be sealed as described in the approval documentation for the indicator used.

## **TEST PROCEDURE**

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

### **Maximum Permissible Errors at Verification/Certification**

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads,  $m$ , expressed in verification scale intervals,  $e$ , are:

- $\pm 0.5 e$  for loads  $0 \leq m \leq 500$ ;
- $\pm 1.0 e$  for loads  $500 < m \leq 2\,000$ ; and
- $\pm 1.5 e$  for loads  $2\,000 < m \leq 10\,000$ .

TECHNICAL SCHEDULE No 6/10B/55

VARIATION No 1

**Pattern:** Heavy Capacity Weighing Machines Model KD30 Weighing Instrument

**Submittor:** A1 Weighing Equipment Pty Ltd  
(formerly Heavy Capacity Weighing Machines Pty Ltd)  
31 Mort Street  
Toowoomba QLD 4350

**1. Description of Variant 1**

Heavy Capacity Weighing Machines model KD30 platform weighing instruments with the platform fully supported by no less than 4 and with up to 10 Commission-approved load cells. Instruments may be in capacities from 15 000 kg to 149 999 kg with up to 4000 verification scale intervals, using Commission-approved load cells and a Commission-approved digital indicator (in accordance with NSC General Certificate of Approval No 6B/0).

Instruments are approved for use with up to 4000 verification scale intervals (subject to the approval parameters of the load cells and indicator).

Instruments used with more than 3000 verification scale intervals shall be provided with wind protection in accordance with clause **4. Wind Effects** of NSC General Certificate No 6B/0.

NOTIFICATION OF CHANGE

In Technical Schedule No 6/10B/55 dated 19 September 2000 the reference to the submittor should be amended to now read:

“A1 Weighing Equipment Pty Ltd  
(formerly Heavy Capacity Weighing Machines Pty Ltd)”