

# National Standards Commission



## Certificate of Approval No 6/10B/51

Issued under Regulation 9  
of the  
National Measurement (Patterns of Instruments) Regulations

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

Modern Weighbridge Model MW 4000 E Weighing Instrument  
submitted by Modern Weighbridge & Scale Service Pty Ltd  
25 Davis Street  
Wingfield SA 5013:

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Birch', written in a cursive style.

### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/1/95.  
This approval expires in respect of new instruments on 1/1/96.

Instruments purporting to comply with this approval shall be marked NSC No 6/10B/51 and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the drawings and specifications 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 106.

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.

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

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

The pattern as approved herein or with substitute load cells and/or indicator, and in other capacities, shall comply with General Certificate No 6B/0.

### DESCRIPTIVE ADVICE

**Pattern:** approved 18/12/89

A Modern Weighbridge model MW 4000 E weighing instrument of 30 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

Technical Schedule No 6/10B/51 describes the pattern.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/10B/51 dated 30/4/90  
Technical Schedule No 6/10B/51 dated 30/4/90 (incl. Test Procedure)  
Figure 1 dated 30/4/90



# National Standards Commission

## TECHNICAL SCHEDULE No 6/10B/51

**Pattern:** Modern Weighbridge Model MW 4000 E Weighing Instrument

**Submittor:** Modern Weighbridge & Scale Service Pty Ltd  
25 Davis Street  
Wingfield SA 5013.

### 1. Description of Pattern

A Modern Weighbridge model MW 4000 E self-indicating weighing instrument of 30 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

#### 1.1 Basework

The model MW 4000 E basework has the platform directly supported by 4 load cells.

#### 1.2 Load Cells

Molen model CSP-M-25-A load cells of 25 000 kg capacity are used as described in the documentation of NSC approval No S133 or S133A, and mounted as shown in Figure 1.

#### 1.3 Indicator

A Gedge model GS1650 digital indicator is used as described in the documentation of NSC approval No S193.

#### 1.4 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval numbers – Instrument	NSC No 6/10B/51
– load cells	NSC No S.....
– Indicator	NSC No S.....
Accuracy class	Ⓜ
Maximum capacity	Max..... kg *
Minimum capacity	Min..... kg *
Verification scale interval	e = d =..... kg *
Maximum subtractive tare	T = -..... kg

\* These are repeated adjacent to each reading face.

#### 1.5 Verification Provision

Provision is made for a verification mark to be applied.

## TEST PROCEDURE

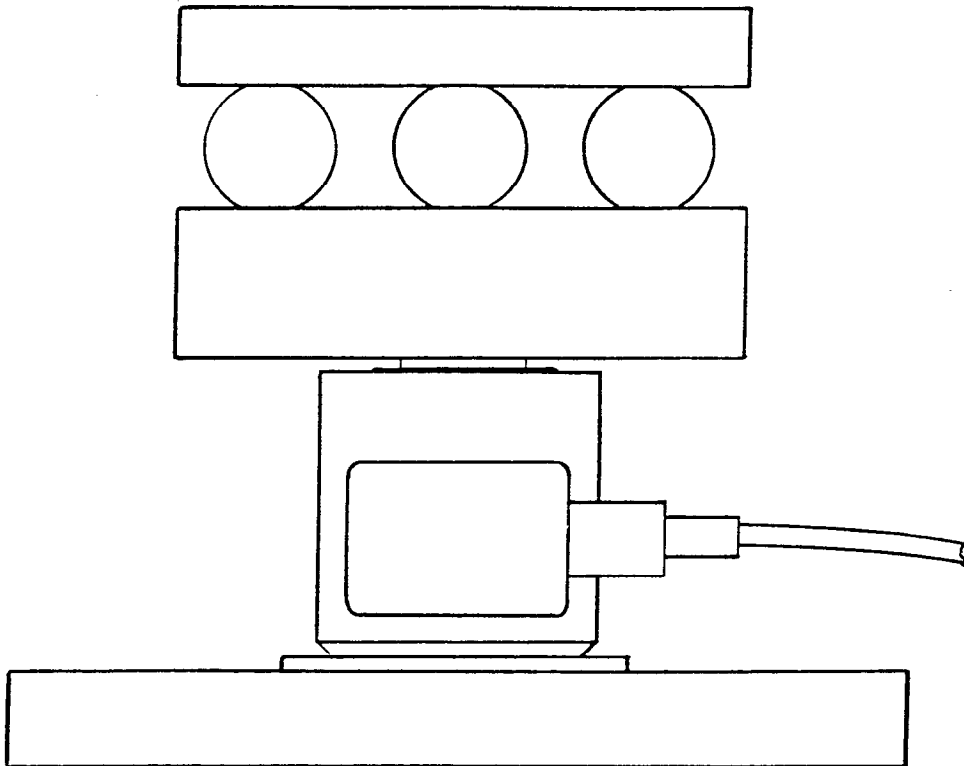
Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

### Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval ( $e$ ), with the instrument adjusted to zero within  $\pm 0.25e$  at no load, are:

- $\pm 0.5e$  for loads from 0 to  $500e$ ;
- $\pm 1.0e$  for loads over  $500e$  up to  $2\ 000e$ ; and
- $\pm 1.5e$  for loads over  $2\ 000e$ .

Figure 6/10B/51 - 1



Load Cell Mounting For  
MW 4000 E Basework