

# National Standards Commission



## Certificate of Approval

**No 6/9C/204A**

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

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

Modern Weighbridge Model LTS1000 Weighing Instrument

submitted by Modern Weighbridge and 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 Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/8/97.  
This approval expires in respect of new instruments on 1/8/98.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/204A 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 106.

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

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.

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 23/7/92

- A Modern Weighbridge model LTS1000 self-indicating weighing instrument with a 3-lever system basework of 15 000 kg maximum capacity.

**Variant:** approved 23/7/92

1. Using a 2-lever system.

Technical Schedule No 6/9C/204A describes the pattern and variant 1.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/204A dated 9/9/92  
Technical Schedule No 6/9C/204A dated 9/9/92 (incl. Test Procedure)  
Figures 1 to 3 dated 9/9/92



# National Standards Commission

## TECHNICAL SCHEDULE No 6/9C/204A

**Pattern:** Modern Weighbridge Model LTS1000 Weighing Instrument.

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

### 1. Description of Pattern

- A Modern Weighbridge model LTS1000 self-indicating weighing instrument of 15 000 kg maximum capacity with a verification scale interval of 5 kg.

#### 1.1 Basework

The basework is approved for use with up to 5000 verification scale intervals, and is permanently fixed either above ground or set into a pit and uses a 3-lever system to support the load receptor with a single load cell mounted at the nose-end of the transfer lever (Figure 1).

#### 1.2 Load Cell

A Kelba model KA-1000-C3 1000 kg load cell is used as described in the documentation of NSC approval No S155A.

#### 1.3 Indicator

A Gedge Systems model GS1650 Mk3 digital indicator is used as described in the documentation of NSC approval No S193A.

#### 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 6/9C/204A
- load cells	NSC No S .....
- indicator	NSC No S .....
Accuracy class	III
Maximum capacity	Max ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ..... kg *
Maximum subtractive tare	T = - ..... kg

\* These are repeated adjacent to each reading face.

## 1.5 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

## 2. Description of Variant 1

Using a 2-lever system (Figures 2 and 3) and approved for use with up to 5000 verification scale intervals.

### TEST PROCEDURE

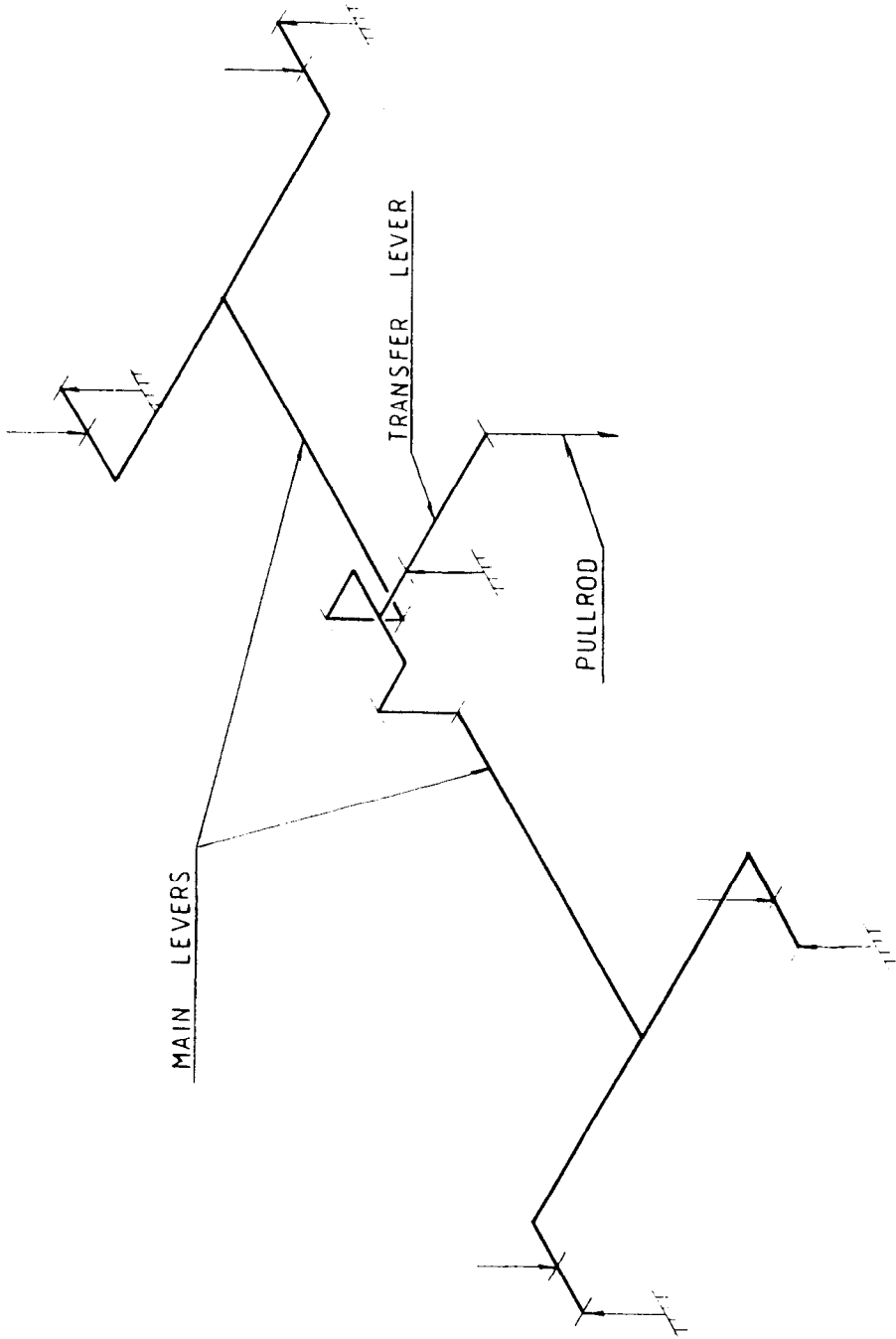
Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

#### 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  $2000e$ ; and
- $\pm 1.5e$  for loads over  $2000e$ .

FIGURE 6/9C/204A - 1



LTS1000 - 3-lever System

FIGURE 6/9C/204A - 2

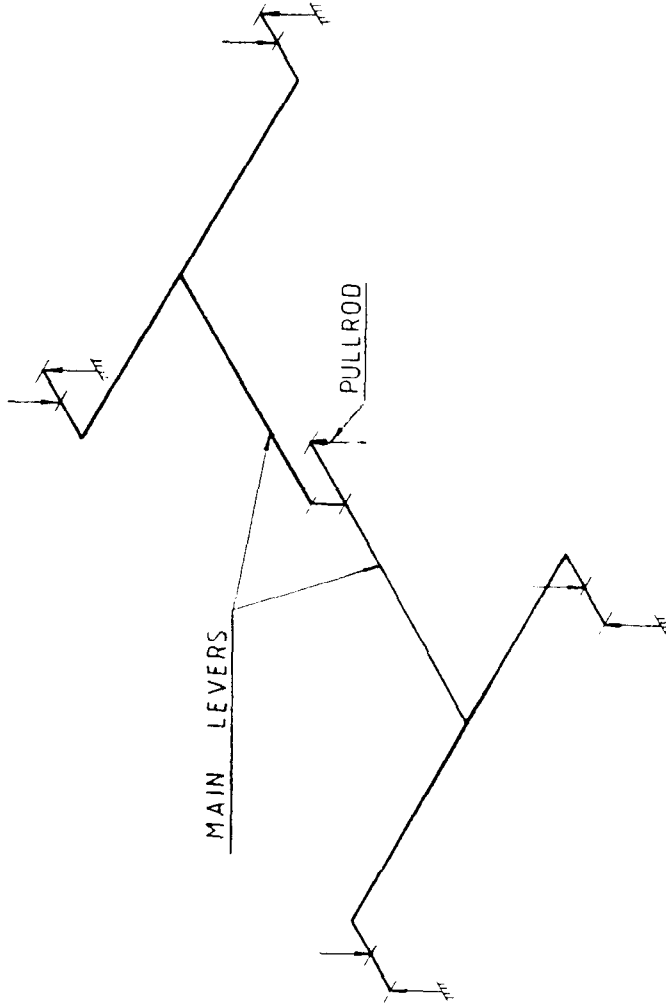
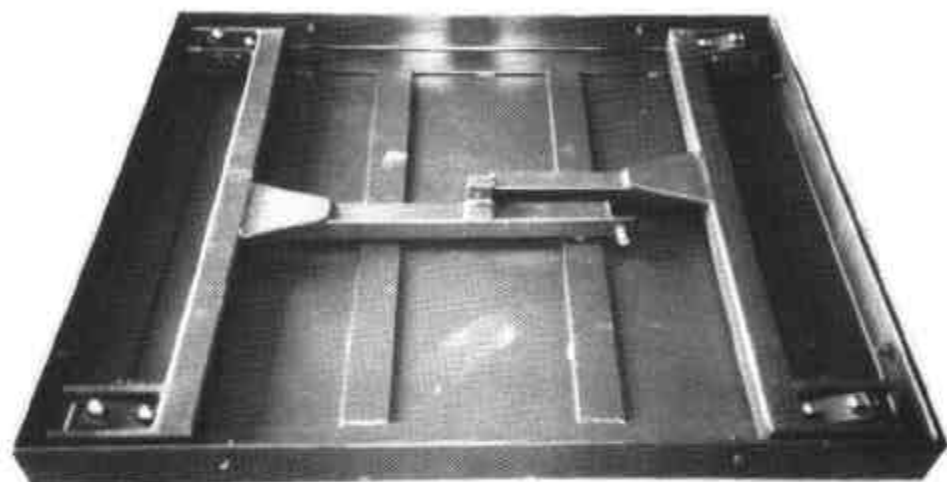
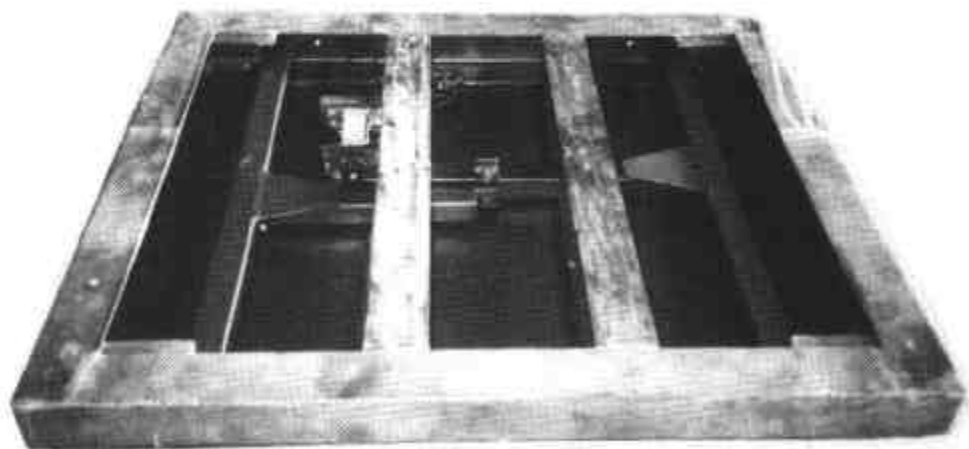


FIGURE 6/9C/204A - 3



Model LTS1000 - 2-lever Basework