



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval No 6/9C/235A

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 respect of the

Salter Weigh-Tronix Model DSL Weighing Instrument

submitted by Avery Weigh-Tronix
Foundry Lane
Smethwick
West Midlands B662LP UNITED KINGDOM

has been cancelled in respect of new instruments as from 1 September 2010.

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, consisting of a series of loops and flourishes, positioned to the right of the signature text.



National Standards Commission

Certificate of Approval

No 6/9C/235A

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

Salter Weigh-Tronix Model DSL Weighing Instrument

submitted by **Salter Weigh-Tronix Pty Ltd**
20 Terracotta Drive
Blackburn VIC 3130.



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 December 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/235A 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.

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, or with different platform sizes, shall comply with General Certificate No 6B/0.

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: approved 14 November 1997

- A Salter Weigh-Tronix model DSL self-indicating weighing instrument of 2500 kg maximum capacity.

Variants: approved 14 November 1997

1. With a model DSL basework in certain other capacities and configurations.
2. With a model DS basework which includes a baseframe.

Technical Schedule No 6/9C/235A describes the pattern and variants 1 & 2.

Variant: approved 25 September 1998

3. With a model DSL basework of 6000 kg maximum capacity.

Technical Schedule No 6/9C/235A Variation No 1 describes variant 3.

Variant: approved 26 May 1999

4. With a model DSL basework of 300 kg maximum capacity.

Technical Schedule No 6/9C/235A Variation No 2 describes variant 4.

FILING ADVICE

Certificate of Approval No 6/9C/235A dated 20 November 1998 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/235A dated 13 September 1999

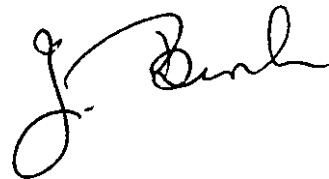
Technical Schedule No 6/9C/235A dated 12 December 1997 (incl. Test Procedure)

Technical Schedule No 6/9C/235A Variation No 1 dated 20 November 1998

Technical Schedule No 6/9C/235A Variation No 2 dated 13 September 1999

Figures 1 to 3 dated 12 December 1997

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.

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

TECHNICAL SCHEDULE No 6/9C/235A

Pattern: Salter Weigh-Tronix Model DSL Weighing Instrument.

Submittor: Salter Weigh-Tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130



1. Description of Pattern

A Salter Weigh-Tronix model DSL self-indicating weighing instrument of 2 500 kg maximum capacity and approved for use with up to 2 500 verification scale intervals.

1.1 Basework

The model DSL basework has supporting feet fitted directly to the load cells which directly support the load receptor.

The load receptor has maximum nominal dimensions of 1.2 x 1.2 m.

1.2 Load Cells

Four Weigh-Tronix model WBP 1.25K load cells of 625 kg maximum capacity are used and are mounted as shown in Figure 1.

These load cells are also described in the documentation of NSC approval No S265A.

1.3 Indicator

A Weigh-Tronix model WI-125 digital indicator is used. This indicator is also described in the documentation of NSC approval No S335.

1.4 Verification/Certification Provision

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

1.5 Sealing Provision

The calibration adjustments are sealed by means of the sealing screws provided on the front and rear of the indicator.

1.6 Markings

Instruments shall carry the following markings, in the form shown at right:

| | |
|--|------------------|
| Manufacturer's mark, or name written in full | |
| Indication of accuracy class | Ⓜ |
| Maximum capacity | Max kg * |
| Minimum capacity | Min kg * |
| Verification scale interval | e = kg * |
| Serial number of the instrument | |
| Serial numbers of the load cells (#) | |
| Pattern approval mark for the instrument | NSC No 6/9C/235A |

- * These markings shall also be repeated near each reading face if they are not already located there.
- # Alternatively, these may be marked adjacent to the verification mark.

2. Description of Variants

2.1 Variant 1

With a model DSL basework in certain capacities and configurations as listed below:

- (i) With maximum capacities between 1500 and 5000 kg using model WBP 2.50K load cells of 1375 kg maximum capacity, and approved for use with up to 3000 verification scale intervals.

The load receptor has maximum nominal dimensions of 1.5 x 1.5 m, or 1.2 x 1.8 m.

- (ii) With maximum capacities between 600 and 2500 kg using model WBP 1.25K load cells of 625 kg maximum capacity, and approved for use with up to 4000 verification scale intervals.

The load receptor has maximum nominal dimensions of 1.2 x 1.2 m.

2.2 Variant 2

With a model DS basework (Figure 2) of 2 500 kg maximum capacity which has the load receptor supported by means of chain-link assemblies on four load cells fixed to the baseframe. The model DS basework is approved for use with up to 4000 verification scale intervals.

Four Weigh-Tronix model WBP 1.25K load cells of 625 kg maximum capacity are used and are mounted as shown in Figure 3. These load cells are also described in the documentation of NSC approval No S265A.

The load receptor has maximum nominal dimensions of 1.2 x 1.2 m.

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:

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

TECHNICAL SCHEDULE No 6/9C/235A
VARIATION No 1

Pattern: Salter Weigh-Tronix Model DSL Weighing Instrument.

Submittor: Salter Weigh-Tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130



1. Description of Variant 3

With a model DSL basework (Figure 1) of 6000 kg, and with up to 3000 verification scale intervals, and with a load receptor of 3 x 3.6 m.

Four Weigh-Tronix model WBP 5.0K load cells of 2700 kg maximum capacity are used and are mounted as shown in Figure 1. These load cells are also described in the documentation of NSC approval No S265A.

TECHNICAL SCHEDULE No 6/9C/235A
VARIATION No 2

Pattern: Salter Weigh-Tronix Model DSL Weighing Instrument.

Submittor: Salter Weigh-Tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130



1. Description of Variant 4

With a model DSL basework (Figure 1) of 300 kg, and with up to 3000 verification scale intervals, and with a load receptor having maximum nominal dimensions of 1000 x 1000 mm.

Four Weigh-Tronix model WBP 0.5K load cells of 270 kg maximum capacity are used and are mounted as shown in Figure 1. These load cells are also described in the documentation of NSC approval No S265A.



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 6/9C/235A
Change No 1

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

The following changes are made to the approval documentation for the

Salter Weigh-Tronix Model DSL Weighing Instrument

submitted by Avery Weigh-Tronix
(formerly submitted by Salter Weigh-Tronix Pty Ltd)
Foundry Lane, Smethwick
West Midlands B66 2LP UK.

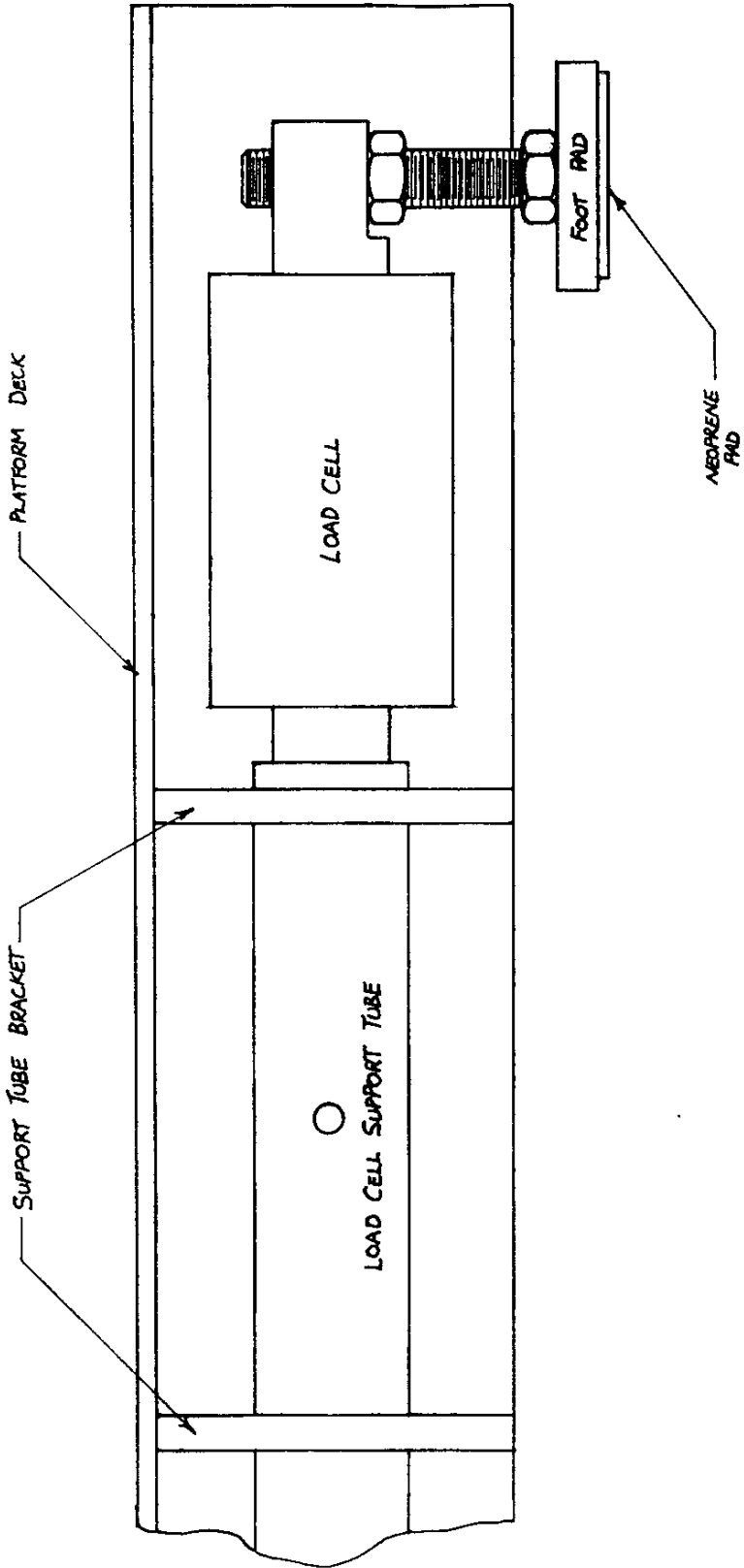
1. In Certificate of Approval No 6/9C/235A dated 13 September 1999, the Condition of Approval referring to the review of the approval should be amended to read:
"This approval becomes subject to review on 1 December 2007, and then every 5 years thereafter."
2. In Certificate of Approval No 6/9C/235A dated 13 September 1999 and its Technical Schedule Variation No 2, and in Technical Schedule 6/9C/235A dated 12 December 1997, and in Technical Schedule 6/9C/235A Variation No 1 dated 20 November 1998, all references to the submitter should be amended to read:

"Avery Weigh-Tronix
Foundry Lane, Smethwick
West Midlands B66 2LP UK."

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

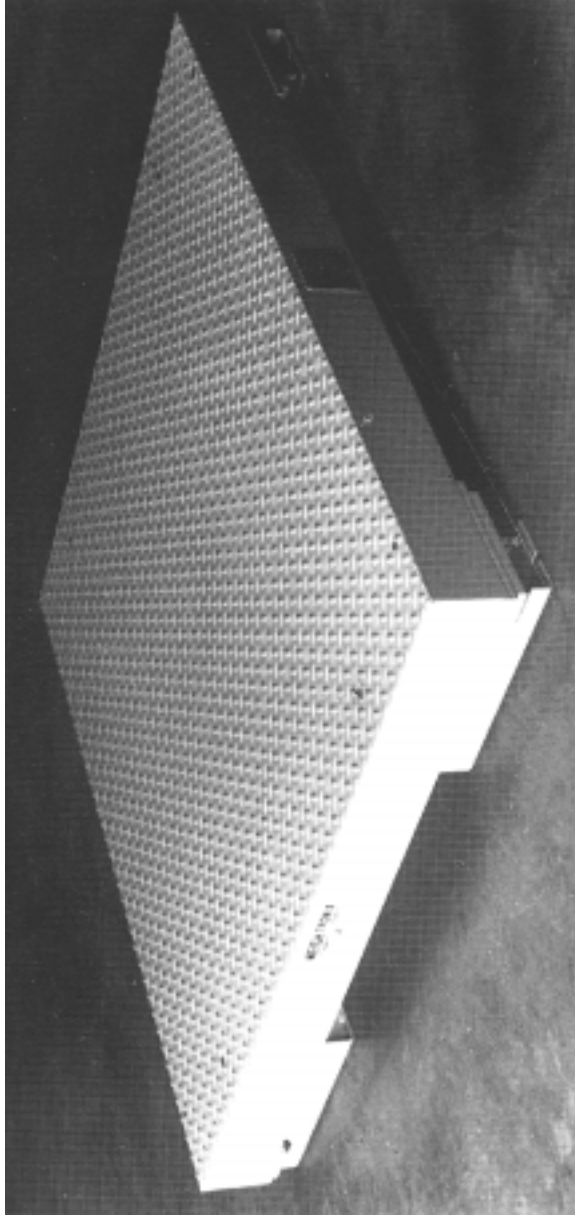
A handwritten signature in black ink, appearing to be 'J. G. T.', located at the bottom right of the page.

FIGURE 6/9C/235A - 1



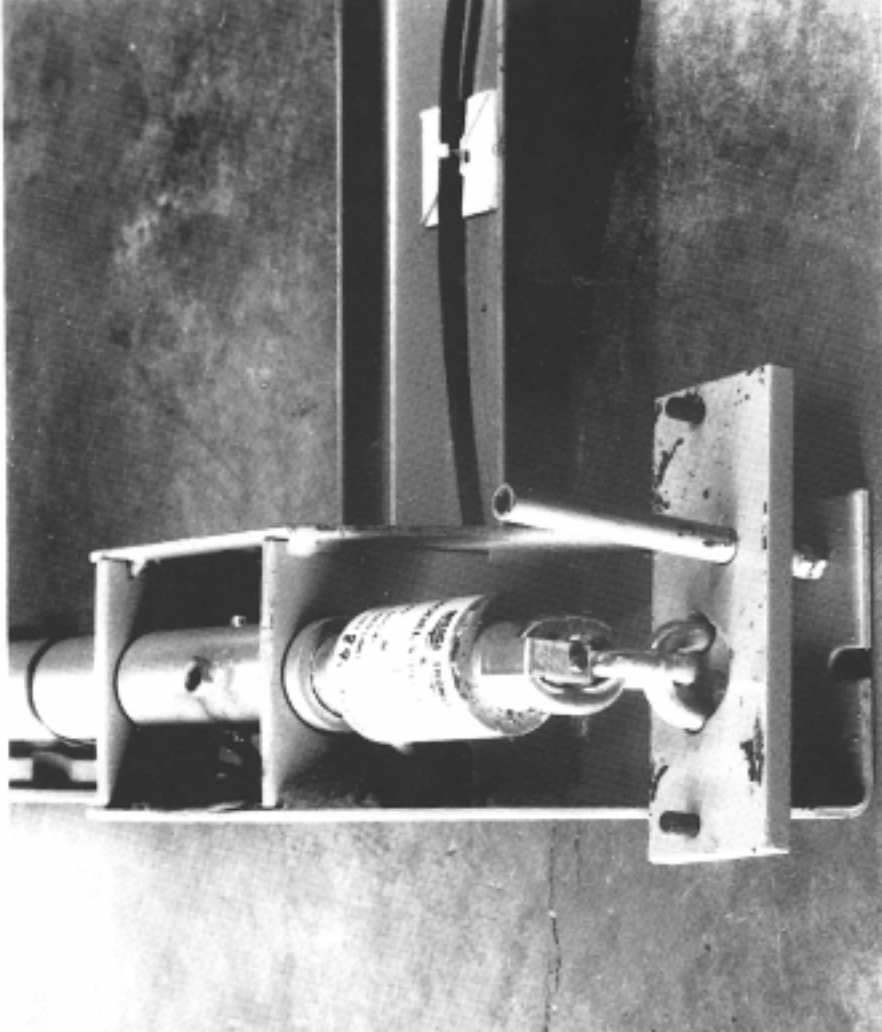
Showing Load Mounting - Pattern

FIGURE 6/9C/235A - 2



Salter Weigh-Tronix Model DS Basework

FIGURE 6/9C/235A - 3



Showing Load Mounting – DS Basework