National Standards Commission

Certificate of Approval

No 6/9C/249

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

Velcon Model UWI/AEF Weighing Instrument

submitted by Simon Engineering (Australia) Pty Ltd
33 Paul Street
North Ryde NSW 2113.

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 is subject to review on or after 1 November 1999.
This approval expires in respect of new instruments on 1 November 2000.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/249 and only by persons authorised by the submittor.

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

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It is the submittor'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.

This approval shall NOT be used in conjunction with General Certificate No 6B/0.

DESCRIPTIVE ADVICE

Pattern: approved 25 October 1994

- A Velcon model UWI/AEF self-indicating weighing instrument of 500 kg maximum capacity with a verification scale interval of 0.5 kg.

Technical Schedule No 6/9C/249 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/249 dated 20 December 1994
Technical Schedule No 6/9C/249 dated 20 December 1994 (incl. Test Procedure)
Figures 1 and 2 dated 20 December 1994

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.

National Standards Commission

TECHNICAL SCHEDULE No 6/9C/249

Pattern: Velcon Model UWI/AEF Weighing Instrument.

Submittor: Simon Engineering (Australia) Pty Ltd
33 Paul Street
North Ryde NSW 2113.

1. Description of Pattern

A Velcon model UWI/AEF self-indicating weighing instrument of 500 kg maximum capacity with a verification scale interval of 0.5 kg.

1.1 Basework (Figure 1)

The basework is fitted with a single load cell and is designed to enable a drum to be driven onto the platform by a conveyor, and then to be filled automatically by a filling lance.

1.2 Load Cell

A Tedea model 1250 load cell of 500 kg capacity is used.

1.3 Indicator

A Velcon model UWI/AEF Flex-weigh digital indicator is used (Figure 2). The indicator has facilities for the setting of various filling sequences, alarms, and parameters, and can provide various management control and reporting functions.

Before filling is started the instrument is tared, enabling the mass of fluid put into the drum to be displayed.

NOTE: This mass is later converted into a volume; this conversion is subject to the requirements of the relevant packaging legislation of the state or territory in which the instrument is located.

1.3.1 Zero

Zero is set to within ±0.25, as indicated by zero LED being illuminated, by pressing the zero button for 2 seconds.

1.3.2 Display Check

A display check is initiated whenever power is applied.

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1.3.3 Tare

Instruments may be fitted with an automatic and/or a semi-automatic subtractive taring device, each of up to the maximum capacity of the instrument.

1.4 Markings

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/9C/249
Accuracy class	(III)
Maximum capacity	Max ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ... 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.

1.6 Sealing Provision

Provision is made for the calibration adjustments to be sealed.

TEST PROCEDURE

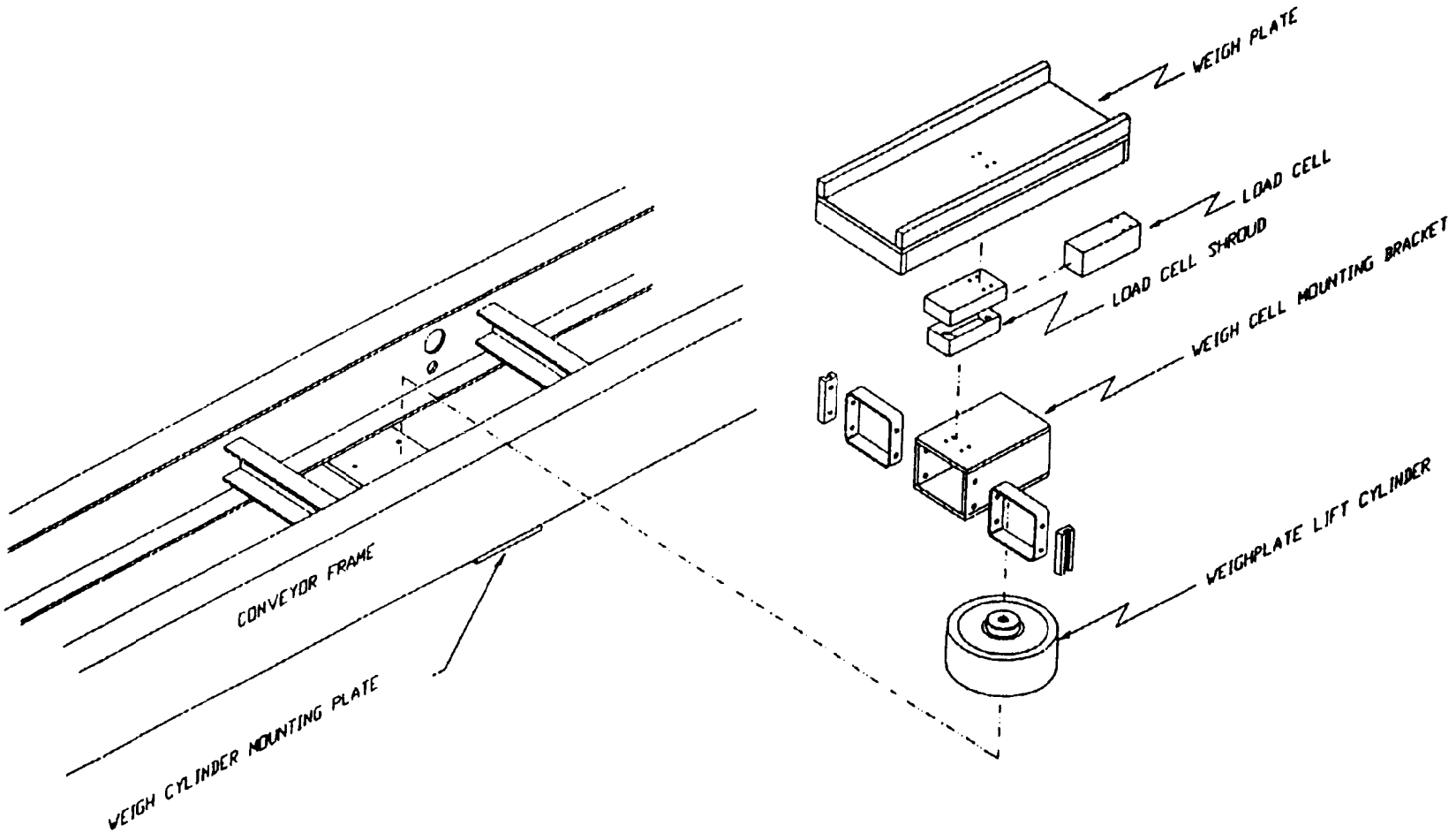
Instruments should be tested in in accordance with any relevant tests specified in the Inspector's Handbook.

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 ±0.25e at no load, are:

±0.5e for loads from 0 to 500e; and
±1.0e for loads over 500e.

FIGURE 6/9C/249 - 1



Velcon Model UWI/AEF Weighing Instrument

FIGURE 6/9C/249 - 2

Velcon Model UWI/AEF Digital Indicator