



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Instrument Certificate of Approval
No 6/9C/294

Issued by the Chief Metrologist 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

Unimin Model UAL001 Weighing Instrument

submitted by Unimin Australia Limited
 1 Melba Avenue
 Lilydale VIC 3140.

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.

This approval has been granted with reference to document NMI R 76, *Non-
automatic weighing instruments, Parts 1 and 2*, dated July 2004.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 September 2012, and then
every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with
approval number 'NMI 6/9C/294' 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 National Measurement Institute (NMI) 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 document NMI P 106.

The National Measurement Institute 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.

Special Condition of Approval:

This approval is limited to a single instrument located at Unimin Australia Limited, SFQL Plant, Traralgon, Victoria.

DESCRIPTIVE ADVICE

Pattern: approved 21 August 2007

- The Unimin UAL001 model 'bulk bag' class  non-automatic weighing instrument of 1500 kg maximum capacity.

Technical Schedule No 6/9C/294 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Instrument Certificate of Approval No 6/9C/294 dated 22 August 2007
Technical Schedule No 6/9C/294 dated 22 August 2007 (incl. Test Procedure)
Figures 1 and 2 dated 22 August 2007

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




TECHNICAL SCHEDULE No 6/9C/294

Pattern: Unimin Model UAL001 Weighing Instrument

Submittor: Unimin Australia Limited
1 Melba Avenue
Lilydale VIC 3140

1. Description of Pattern

A Unimin model UAL001 'bulk bag' class  non-automatic weighing instrument of 1500 kg maximum capacity with a verification scale interval of 1 kg.

1.1 Basework

The basework of the instrument (Figure 1) has a frame directly supported by four A & D model LCM13T001 load cells of 1000 kg maximum capacity (also described in the documentation of approval NMI S446).

A bulk bag is attached to hooks which are supported by the instrument frame and which may be raised so that the bulk bag is also supported by the instrument frame during weighing.

The frame has an open front through which the bulk bag may be removed following weighing.

This model basework has nominal dimensions of 1585 x 1585 mm.

The basework is installed in a permanently fixed location (and hence is not required to be provided with a level indicator).

Additional facilities for filling of the bulk bag may be provided, however these shall not interfere with the weighing process.

Note: The bag filling head is separate from the weighing frame – therefore when weighing for trade use, the bag shall be disconnected from the filling head.

1.2 Indicator

An A & D model AD-4406 digital indicator is used. The indicator is described in the documentation of approval NMI S451.

1.3 Verification/Certification Provision

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

1.4 Sealing Provision

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

1.5 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Unimin Australia Limited
Indication of accuracy class	Ⓜ
Maximum capacity	<i>Max</i> 1500 kg *
Minimum capacity	<i>Min</i> 20 kg *
Verification scale interval	<i>e</i> = 1 kg *
Tare capacity (if less than <i>Max</i>)	<i>T</i> = - kg #
Serial number of the instrument
Pattern approval mark for the instrument	6/9C/294
Pattern approval mark for the load cells	S446
Pattern approval mark for the indicator	S451

- * These markings shall also be shown near the display of the result if they are not already located there.
- # Required only if the maximum subtractive tare capacity of the instrument is not equal to the maximum capacity of the instrument.

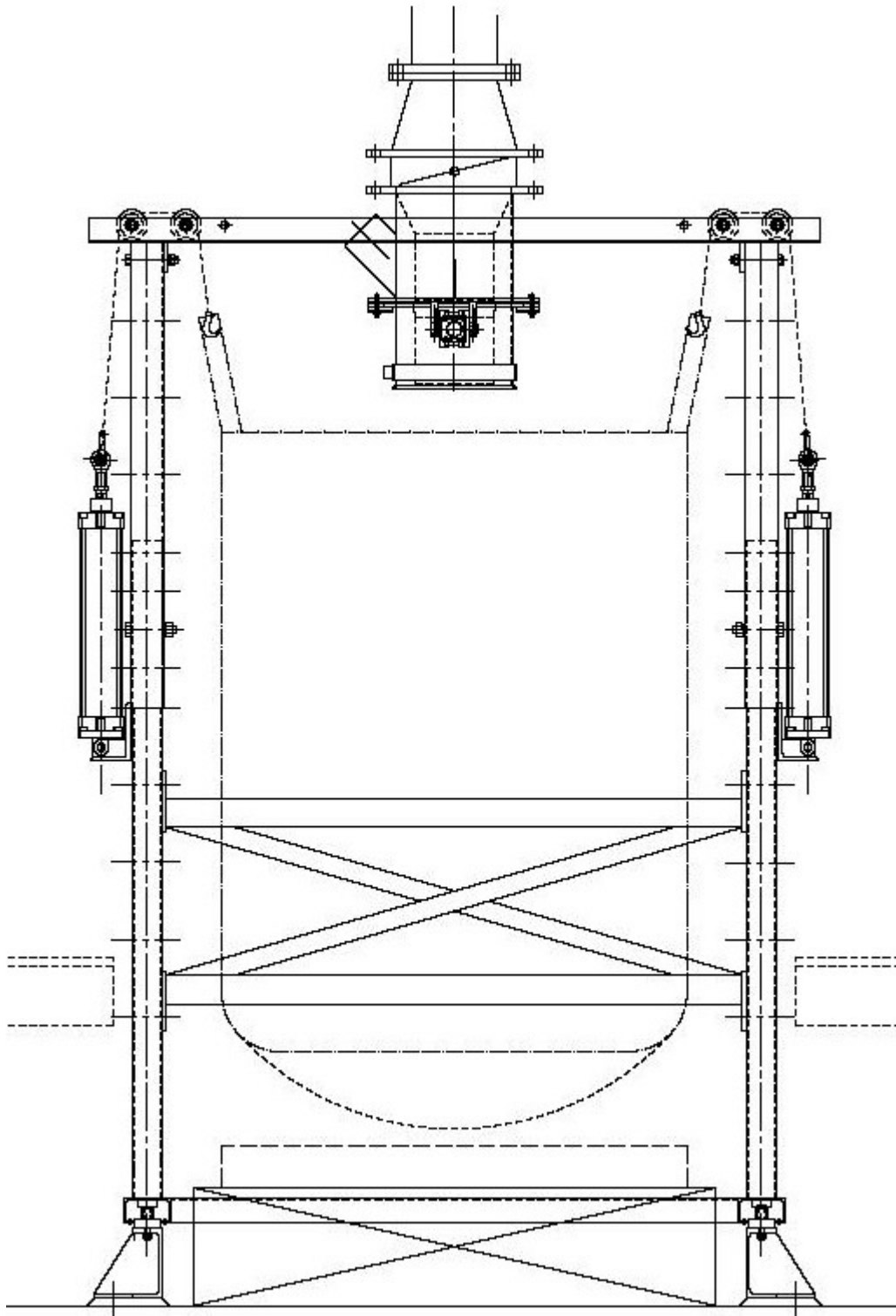
TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors are specified in Schedule 12 of the *National Measurement Regulations 1999*.

FIGURE 6/9C/294 – 1



Unimin Model UAL001 Weighing Instrument

FIGURE 6/9C/294 – 2



Unimin Model UAL001 Weighing Instrument