



6/9C/96
19/5/88

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/96

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

Avery Model 3750 Platform Weighing Instrument

submitted by Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/91.
This approval expires in respect of new instruments on 1/10/92.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/96 and only by persons authorised by the submittor.

This approval may be withdrawn if instruments are constructed other than as described in the drawings and specifications lodged with the Commission.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified in this approval or 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 load cells used shall be subject to regular certification by the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 17/4/86 - re-approved 16/9/86

- Avery model 3750 platform weighing instrument of 500 kg capacity.

Variant: approved 17/4/86 - re-approved 16/9/86

1. Of up to 3000 kg capacity.

Technical Schedule No 6/9C/96 describes the pattern and variant 1.

Variant: approved 11/1/88

2. In other capacities of up to 5 t using other Commission-approved load cells, and approved for use with up to 3500 verification scale intervals.

Technical Schedule No 6/9C/96 Variation No 1 describes variant 2.

Filing Advice

Certificate of Approval No 6/9C/96 dated 3/11/86 is superseded by this Certificate and may be destroyed.

Notification of Change

The description of variant 1 given in Technical Schedule No 6/9C/96 dated 3/11/86 should be amended to read, in part:

".. approved for use with up to 3500 verification scale intervals .."

The documentation for this approval now comprises:

Certificate of Approval No 6/9C/96 dated 19/5/88
Technical Schedule No 6/9C/96 dated 3/11/86
Technical Schedule No 6/9C/96 Variation No 1 dated 19/5/88
Test Procedure No 6/9C/96 dated 3/11/86
Figures 1 and 2 dated 3/11/86



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/96

Pattern: Avery Model 3750 Platform Weighing Instrument

Submittor: Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163

1 Description of Pattern

A model 3750 platform weighing instrument (Figure 1) of 500 kg maximum capacity approved for use with up to 1000 verification scale intervals. Also known as a model H400.

1.1 Basework

The basework has a load cell mounted at each corner of the simply-supported platform (Figure 2). The basework may be installed above ground, with or without loading ramps, or let into a pit in which case the platform is level with the ground.

1.2 Levelling

When not in a permanently fixed position, the instrument is provided with adjustable feet and adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.3 Indicator

The Avery model 8653 digital indicator is described in the documentation of NSC approval No S113 and may be marked as specified in that approval or alternatively as specified in 1.5.1 below, when fitted in this instrument.

1.4 Load Cells

Four Kelba model KA250 load cells of 250 kg capacity are used. These are described in the documentation of NSC approval No S155 and may be marked as specified in that approval or alternatively as specified in 1.5.2 below, when fitted in this instrument.

1.5 Markings

1.5.1

The instrument is marked with the following data, in a clearly visible location:

Manufacturer's name or mark	
Approval number	NSC No 6/9C/96
Serial number	
Accuracy class	(III)
Maximum capacity	Max.....kg *
Minimum capacity	Min.....kg *
Verification scale interval	e = d =kg *
Maximum subtractive tare	T = -
Load cell approval number)	
Headwork approval number) where	
Basework approval number) appropriate	

* Repeated adjacent to each reading face, if not already in that vicinity.

1.5.2

The following is the minimum data required to be marked on the load cells:

Manufacturer's name or mark
Model number
Serial number
Maximum capacity

Load cell serial numbers may alternatively be marked on a nameplate attached to the indicator or marked on metal tags attached to the indicator via a lead and wire seal.

1.6 Verification Mark

Provision is made for a verification mark to be applied.

2. Description of Variant 1

Of up to 3000 kg capacity and approved for use with up to 3000 verification scale intervals when fitted with an indicator and load cells approved for at least that number of verification scale intervals. The minimum value of verification scale interval for the instrument shall be at least 4 times the appropriate value specified in the approval documentation for the load cell.

Instruments are known as models 3750 (or alternatively H400) when fitted with platforms of up to 1 m² and as models 4750 (or H500) when fitted with platforms of up to 2.25 m².



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TEST PROCEDURE No 6/9C/96

Instruments should be tested in conjunction with any test procedure in the approval documentation for the indicator used.

The maximum permissible errors are:

- $\pm 0.5e$ for loads between 0 and 500e;
- $\pm 1.0e$ for loads between 500e and 2000e; and
- $\pm 1.5e$ for loads above 2000e.

1. Load Test

Test loads are to be applied to the complete weighing instrument increasing in not less than 5 approximately equal steps to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

2. Off-centre Load Test

The specified maximum permissible errors shall apply to a test load of approximately 1/3 of maximum capacity, distributed successively over an area of approximately 1/5 of the platform (at the corners of the platform).



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TECHNICAL SCHEDULE No 6/9C/96

VARIATION No 1

Pattern: Avery Model 3750 Platform Weighing Instrument.

Submittor: Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163.

1. Description of Variant 2

In other capacities of up to 5 t using other Commission-approved load cells, and approved for use with up to 3500 verification scale intervals.



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6/9C/96
29/6/87

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/96

CHANGE No 1

The following change is made to the approval documentation for the
Avery Model 3750 Platform Weighing Instrument

submitted by Avery Australia Ltd
3-5 Birmingham Avenue
Villawood NSW 2163.

1. In Technical Schedule No 6/9C/96 dated 3/11/86:

Delete the 2nd sentence of the 1st paragraph from clause 2. Description - of Variant to remove the reference to the minimum value of the verification scale interval for the instrument.

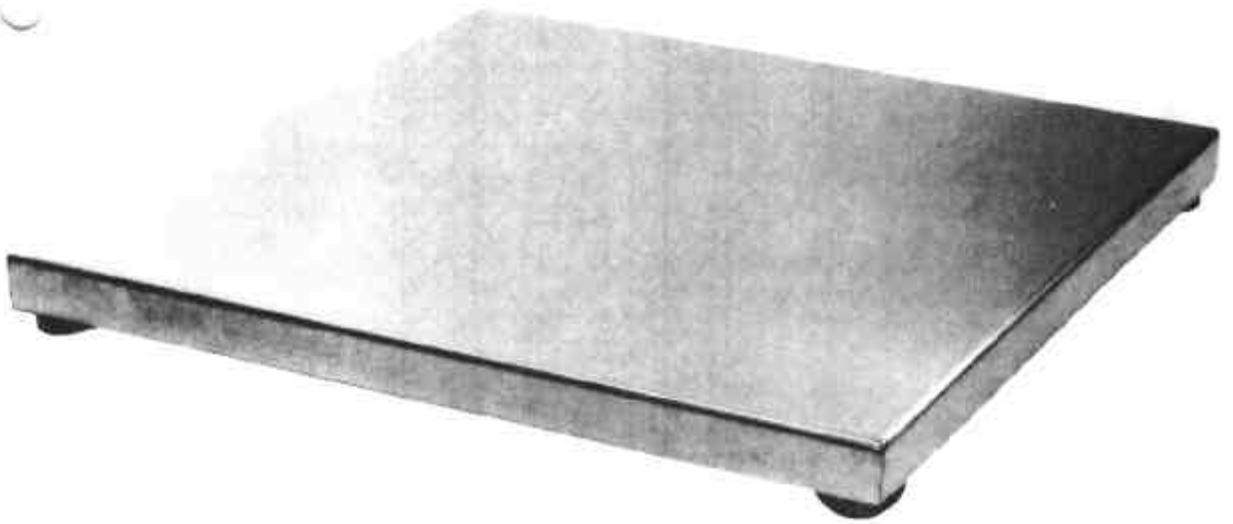
Signed

A handwritten signature in cursive script, appearing to read 'J. Birch'.

Executive Director

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3/11/86

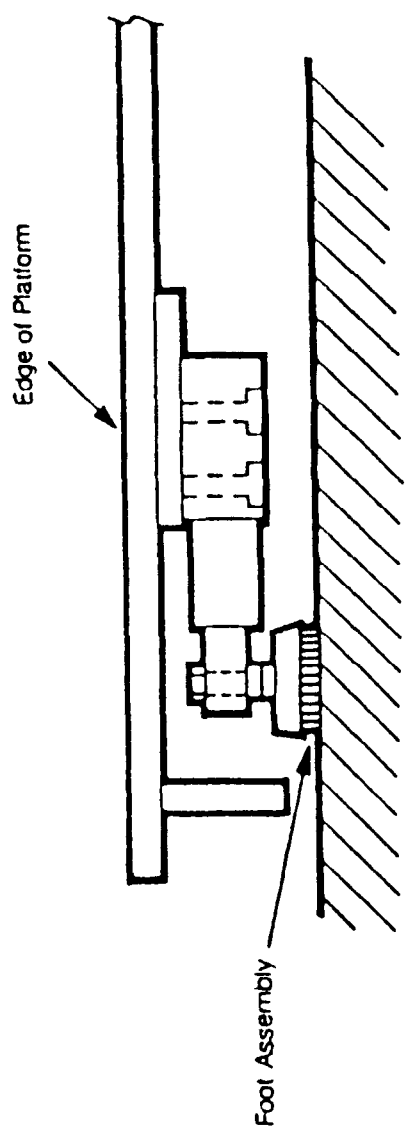
FIGURE 6/9C/96-1



Avery 3750 Platform

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FIGURE 6/9C/96-2



Showing Load Cell Mounting