NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4C/52

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

Sartorius 1400 Series Weighing Instrument

submitted by Selby Anax
61-65 Epping Road
North Ryde NSW 2113.

Conditions of Approval

This approval is subject to review on or after 1/1/91.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/52.

This approval may be withdrawn if instruments are constructed and used other than as described in the drawings and specifications lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 3/12/85

. Sartorius 1400 series class II self-indicating weighing instrument of 6100 g capacity with a verification scale interval of 1 g.

Technical Schedule No 6/4C/52 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4C/52 dated 8/7/86
Technical Schedule No 6/4C/52 dated 8/7/86
Test Procedure No 6/4C/52 dated 8/7/86
Figure 1 dated 8/7/86

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/52

Pattern: Sartorius 1400 Series Weighing Instrument

Submittor: Selby Anax
61-65 Epping Road
North Ryde NSW 2113

1. Description of Pattern

The pattern is a self-indicating class 2 weighing instrument (Figure 1) of 6100 g capacity with a verification scale interval (e) of 1 g and a scale interval (d) of 0.1 g. The right-hand digit (d) is differentiated by hatching.

Instruments may be fitted with a semi-automatic subtractive taring device.

Instruments may have the display at the front of the load receptor (known as model 1403MP8-800) or at the rear of the load receptor (known as model 1493MP8-800).

1.1 Zero and Tare

Zero setting and taring are accomplished by means of a touch pad on the front of the instrument which sets zero to within ± 0.5d as indicated by the differentiated digit. The removal of a tared load from the instrument will result in the value of the tare rounded to the nearest 0.1e being displayed preceded by a minus sign.

Tare capacity is up to the maximum capacity of the instrument.

1.2 Levelling

The instrument is supported on three feet, two of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument is incorrect if not truly level.

1.3 Display Check

Applying power initiates a display check.

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 6/4C/52
Accuracy class	(II)
Maximum capacity	Max 6100 g *
Minimum capacity	Min 50 g *
Verification scale interval	e = 1 g *
Scale interval	d = 0.1 g *
Maximum subtractive tare	T = -6100 g

The instrument is also marked NOT FOR RETAIL COUNTER USE.

* These markings are repeated close to the reading face if not already in that vicinity.

1.4 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE No 6/4C/52

The maximum permissible errors are:

± 0.5e for loads between 0 and 5000e;
± 1.0e for loads between 5001e and 20000e; and
± 1.5e for loads above 20000e.

1. Level Sensitivity

When the instrument is tilted so that the bubble in the level indicator moves 2 mm, and zero balance is reset in the tilted position, the instrument should satisfy the accuracy requirements above.

2. Range of Indication

The maximum mass indicated should not exceed the marked maximum capacity by more than 10e; above this indicated mass the indication should be blank or show non-numerical characters.

3. Tare

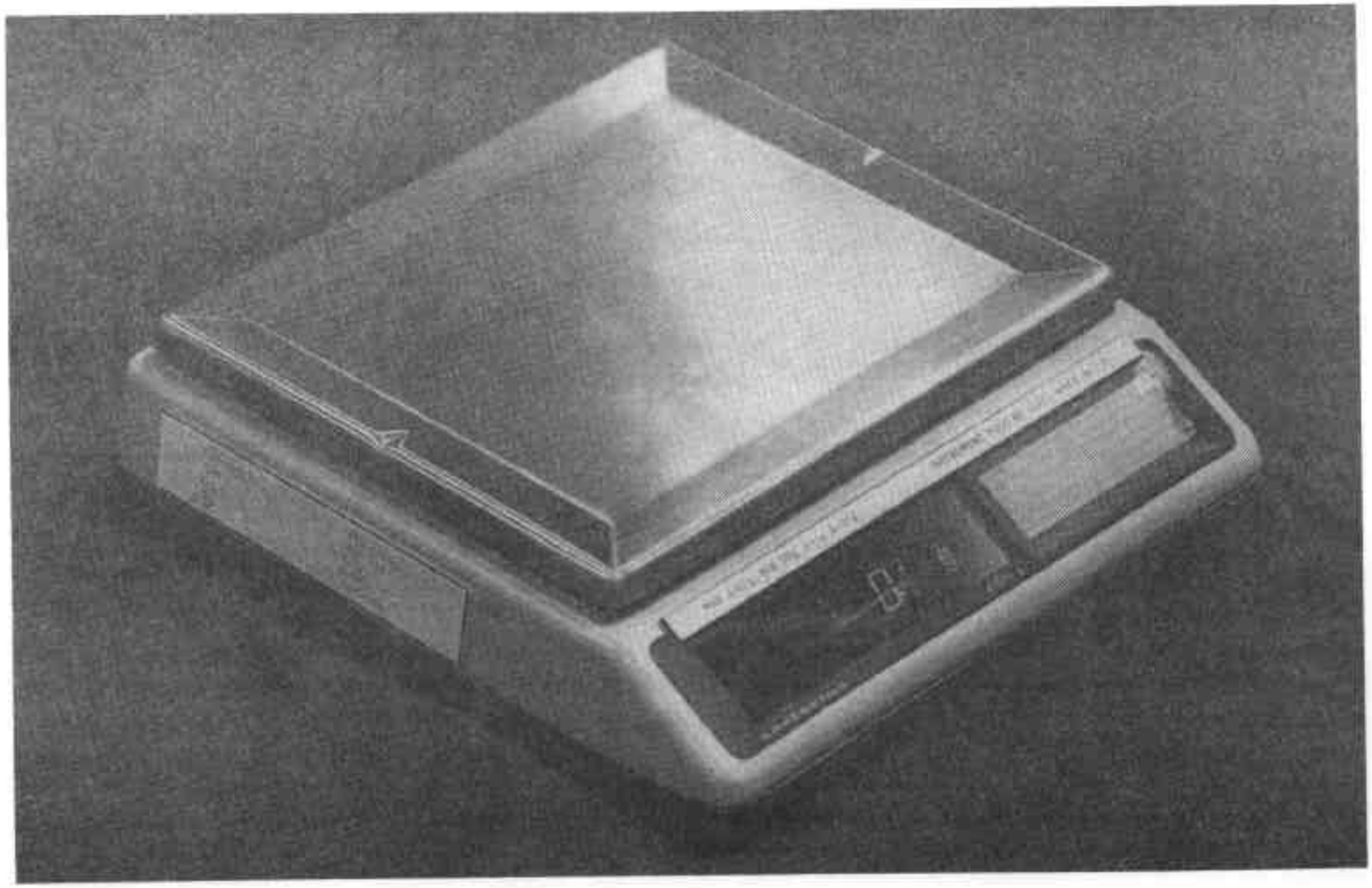
Place a mass equivalent to the maximum tare capacity plus 11e on the load receptor and attempt to tare; this should not be possible.

Place masses equal to 80% of maximum tare capacity on the load receptor and operate the tare button. Then place masses up to 20% of the maximum tare capacity on the load receptor. The indication of these masses should be within the above accuracy requirements.

4. Load Test

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

FIGURE 6/4C/52 - 1



Typical Sartorius 1400 Series Instrument