PS

NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/1/1

This is to certify that an approval has been granted by the Commission that the pattern and variant of the

Griffin and George Minor Beam Balance

submitted by N.G. Brown & Associates Pty Ltd,
7 Albert Street,
Richmond, Victoria, 3121

are suitable for use for trade.

The approval of the pattern is subject to review on or after 1/8/86.

All instruments purporting to comply with this approval shall be marked NSC No 6/1/1.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 19/10/81

. A non-self-indicating beam balance of 200 g capacity by 0.01 g scale intervals.

Variant: approved 19/10/81

1. With 1000 CM capacity by 0.05 CM scale intervals.

Technical Schedule No 6/1/1 dated 16/11/81 describes the pattern and variant 1.

16/11/81

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/1/1

Pattern: Griffin and George Minor Beam Balance

Submittor: N.G. Brown and Associates Pty Ltd,
7 Albert Street,
Richmond, Victoria, 3121

1. Description of Pattern

1.1

The pattern is an ungraduated, non-self-indicating equal-arm beam weighing instrument of 200 g capacity with an assigned verification scale interval of 0.01 g (Figure 1). The load receptors and hangers are not interchangeable and are marked left and right.

1.2 Levelling

The instrument is provided with a level indicator and three levelling feet, two of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.3 Marking

The nameplate is marked with the following data:

Manufacturer's name	
NSC approval number	NSC No 6/1/1
Accuracy class in the form:	(II)
Maximum capacity in the form:	Max 200 g
Minimum capacity in the form:	Min 0.5 g
Verification scale interval in the form:	e = 0.01 g

The instrument is also marked NOT FOR RETAIL COUNTER USE.

2. Description of Variant

2.1 Variant 1

With maximum capacity of 1000 CM, and an assigned verification scale interval of 0.05 CM. The balance is unchanged except for the markings below.

2.1.1 Markings

As for the pattern, with the following exceptions:

Maximum Capacity	Max = 1000 CM
Minimum Capacity	Min = 2.5 CM
Verification Scale Interval	e = 0.05 CM

TEST PROCEDURE No 6/1/1

1. Accuracy Requirements

The maximum permissible errors are:

$\pm$0.5e for loads between 0 and 5000e
$\pm$1e for loads between 5001e and 20 000e

2. Sensitivity

A mass equal to the absolute value of the maximum permissible error at the load considered, placed on the instrument at equilibrium, loaded or unloaded, should cause a permanent displacement of the index of at least 1 mm. This test should be done in conjunction with 4. below for at least zero and full load.

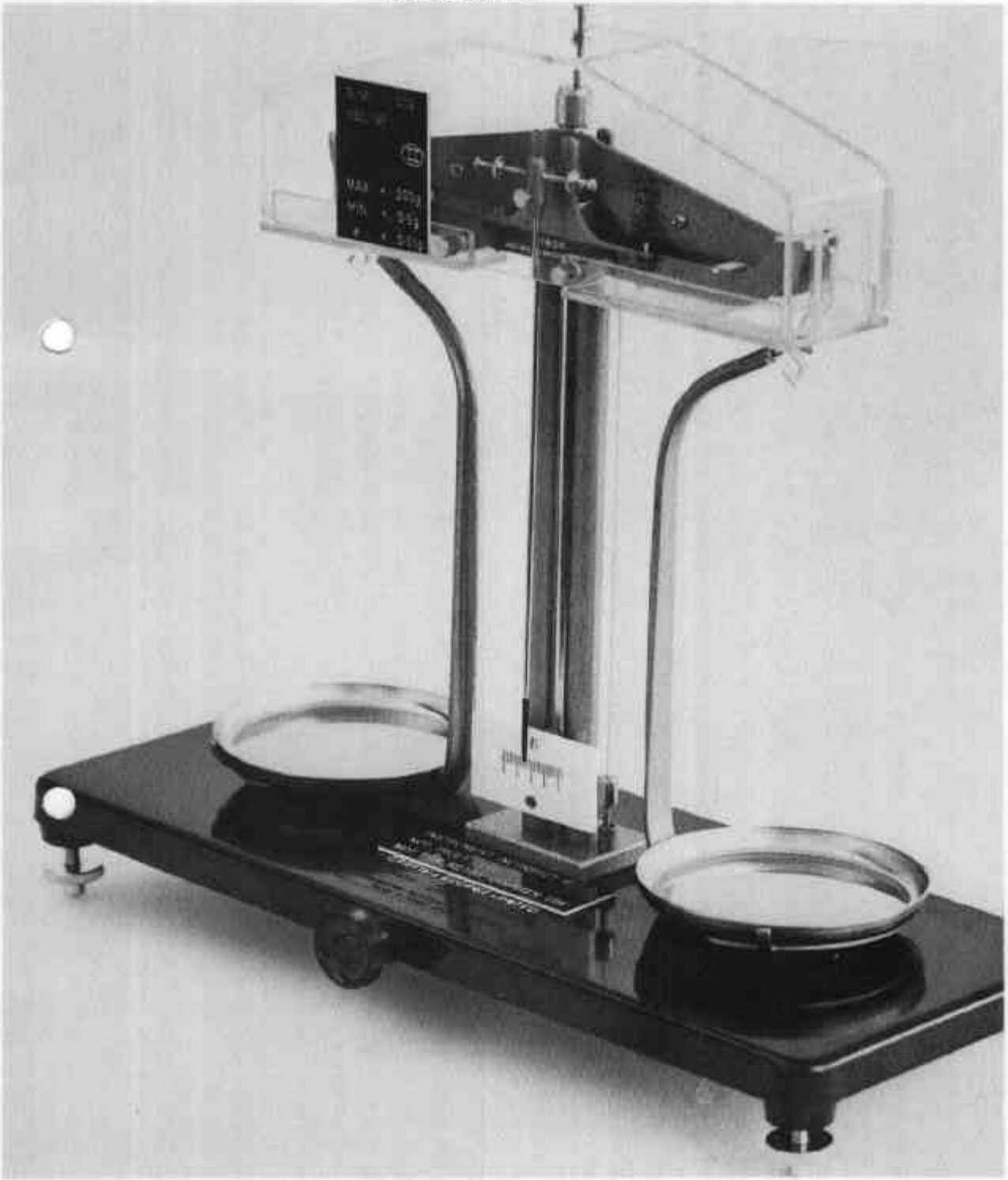
3. Level Sensitivity

When the instrument is tilted so that the end of the plum bob moves 2 mm, the tilt should not be more than 1 in 500, and when zero is reset in the tilted position the instrument should satisfy the above accuracy requirements.

4. Load Test

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

FIGURE 6/1/1 - 1



Griffin and George Minor Beam Balance

16/11/81