



NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/3/11

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

Brecknell Model 107 Weighing Instrument

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

Conditions of Approval

This approval is subject to review on or after 1/4/91.

Instruments purporting to comply with this approval shall be marked NSC No 6/3/11.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 20/3/86

- . A non-self-indicating weighing instrument of 1 kg capacity with a verification scale interval of 0.001 kg.

Technical Schedule No 6/3/11 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/3/11 dated 12/5/86
Technical Schedule No 6/3/11 dated 12/5/86
Test Procedure No 6/3/11 dated 12/5/86
Figure 1 dated 12/5/86



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/3/11

Pattern: Brecknell Model 107 Weighing Instrument

Submitter: Brecknell Australia Ltd
3-5 Birmingham Avenue
Villawood NSW 2163

1. Description of Pattern

A non-self-indicating weighing instrument of 1 kg capacity with a verification scale interval of 0.001 kg (Figure 1). The mass receptor and load receptor are located above the equal-arm beam and are maintained horizontal by a Roberval lever mechanism.

1.1 Zero Setting

The instrument is provided with a balance indicator and a balancing chamber is located beneath the load receptor.

1.2 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/3/11
Accuracy class	III
Maximum capacity	Max 1 kg
Minimum capacity	Min 0.05 kg
Verification scale interval	e = 0.001 kg

1.3 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE No 6/3/11

The maximum permissible errors are:

- ± 0.5e for loads between 0 and 500e; and
- ± 1.0e for loads between 501e and 2000e.

1. Zero Test

With no load on either receptor of the instrument, it should be readily discernable that the instrument is at zero, by the alignment of the indexes.

2. 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.

3. Sensitivity Test at Initial Verification

A mass equal to the verification scale interval placed on or subtracted from the instrument at equilibrium, loaded or unloaded, shall cause the indicating element to move to, but not necessarily remain at the limit of its movement.

4. Off-centre Load Test

The instrument should satisfy the maximum permissible errors above when a load corresponding to 1/3 maximum capacity is distributed successively along each edge of the load or weights receptor without excessive stacking or overlapping at the edges. Note: For scoops, the test load shall be placed as close to the edges as the inclined surface will allow.

FIGURE 6/3/11 - 1



Brecknell Model 107