

National Standards Commission



Certificate of Approval

No 2/1/7A

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

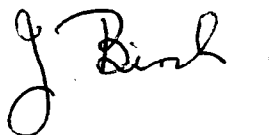
This is to certify that an approval for use for trade has been granted in respect of the

Acme Model 506B Area Measuring Instrument

submitted by Fraho & Son Pty Ltd
PO Box 69
Turramurra NSW 2074.

This Certificate is issued upon completion of a review of NSC approval No 2/1/7.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/4/97.

This approval expires in respect of new instruments on 1/4/98.

Instruments purporting to comply with this approval shall be marked NSC No 2/1/7A and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission 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 the Commission's Document 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 10/3/92

- . An Acme model 506B area measuring instrument for measuring the area of opaque sheets of leather of up to 999.9 dm².

Variant: approved 10/3/92

1. Certain other models of different widths.

Technical Schedule No 2/1/7A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 2/1/7A dated 1/5/92
Technical Schedule No 2/1/7A dated 1/5/92 (incl. Test Procedure)
Figure 1 dated 1/5/92



National Standards Commission

TECHNICAL SCHEDULE No 2/1/7A

Pattern: Acme Model 506B Area Measuring Instrument.

Submittor: Fraho & Son Pty Ltd
PO Box 69
Turrumurra NSW 2074.

1. Description of Pattern

The Acme model 506B (Figure 1) is an instrument for measuring the area of opaque sheets of leather. The pattern has a maximum effective working width of 1820 mm.

1.1 Measuring System

The hide to be measured is passed between a stationary bank of light sources and light sensors, by means of rollers and a conveyor. An idler roller is driven by the conveyor to produce the drive for the pulse unit which is used to determine the intervals of length which are integrated with the output of the light sensors (intervals of width) to give the measured area.

1.2 Indicator

The indicator displays the area of the hide up to a maximum of 999 dm² with a scale interval of 0.1 dm².

1.3 Units

The instrument may be set at the keyboard to measure in either SI units (dm²) or imperial units (ft²) and remains set until the alternate units are selected. The selection of the units in use is indicated by the appropriate LED being illuminated.

The use of imperial units is only for export use, and a notice to this effect is located adjacent to the display.

1.4 Test Facilities

The display unit may be tested via the keyboard. The LED's and photocells are automatically tested whenever power is applied and after each measurement.

1.5 Stamper

The instrument may stamp the leather with the area determined.

1.6 Printers

The instrument may be provided with a ticket printer to provide a printout of the areas of individual sheets, and the total of a number of measurements.

A label printer for individual measurements may also be fitted.

1.7 Marking

The instrument data plate is marked with the following data:

Manufacturer's name or mark	
Serial number	
Year of manufacture	
NSC approval number	NSC No 2/1/7A
Maximum area dm ²
Minimum area dm ²
Scale interval dm ²

In addition, adjacent to the LED indicating that the instrument is set to measure in 'ft²' units, a notice is provided stating 'FOR EXPORT USE ONLY', or similar wording.

1.8 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

2. Description of Variant 1

Model 507B with a maximum effective working width of 2120 mm and model 509B with a maximum effective working width of 2740 mm.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

Instruments shall be tested for single-measurement error and mean error.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors applied during a verification/certification test are:

(a) Single-measurement error;

$\pm 1 \text{ dm}^2$ for templets not exceeding 25 dm^2 ; and

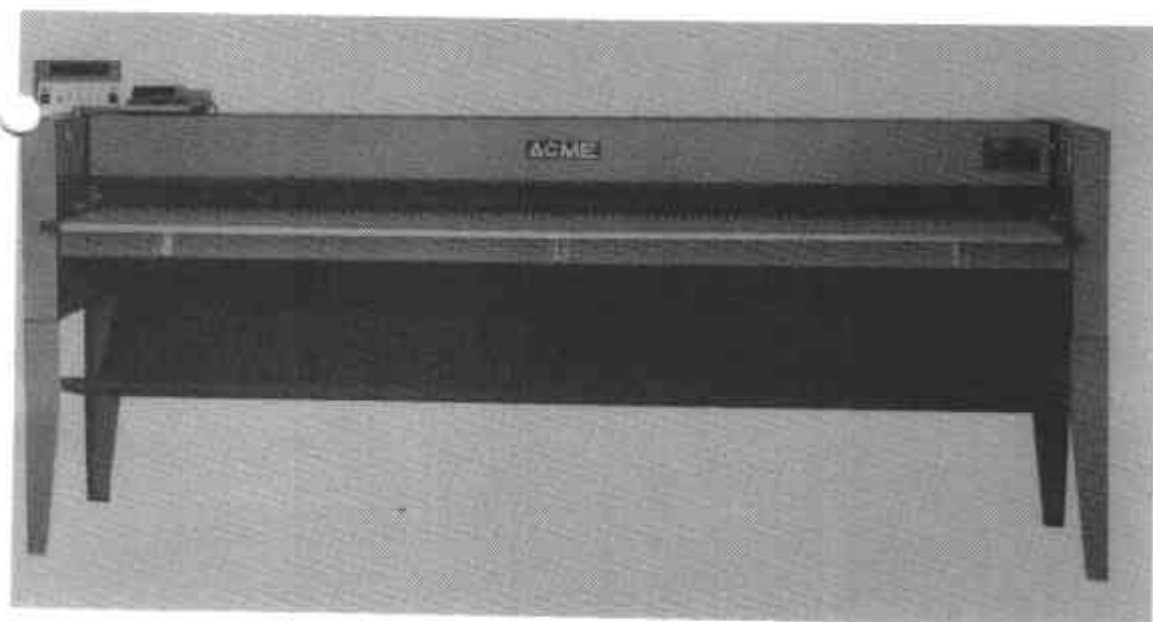
$\pm(1 \text{ dm}^2 + 1 \text{ dm}^2$ for each additional 50 dm^2 or part thereof) for templets exceeding 25 dm^2 .

(b) Mean error;

The mean of 20 measurements shall not differ from the denominated value of the templet by more than one-half the maximum permissible error specified in (a) above.

NOTE: The test templets shall have values which are an integral number of square decimetres (dm^2).

FIGURE 2/1/7A - 1



Acme Model 506B Area Measuring Instrument