



NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 2/1/6

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

Ellwood Conveyor Area Measuring Instrument

submitted by Fraho & Sons,
184 Bobbin Head Road,
Turramurra, New South Wales, 2074,

is 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 2/1/6.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

Descriptive Device

Pattern: approved 19/10/81

. Ellwood Conveyor Area Measuring Instrument

Technical Schedule No 2/1/6 dated 16/11/81 describes the pattern.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 2/1/6

Pattern: Ellwood Conveyor Area Measuring Instrument

Submittor: Fraho & Sons Pty Ltd,
184 Bobbin Head Road,
Turrumurra, New South Wales, 2074.

1. Description of Pattern

1.1

The pattern (Figure 1) is an instrument for measuring the area of opaque sheets of leather. The leather is placed on a conveyor which passes it, at a speed between 15 and 30 meters per minute, between a fluorescent light source and a row of photo-electric cells. The area is displayed in dm^2 on an LED indicator.

The scan width of the instrument may be 1200 mm, 1500 mm, 1800 mm, 2400 mm or 3000 mm. The conveyor length is 5 m.

The segments of the indicator may be tested by a toggle switch at the rear of the indicator. When operated, all 8's are displayed.

1.2 Marking

The instrument data plate is marked with the following data:

Manufacturer's name	
Serial number	
Year of manufacture	
NSC approval number	NSC No 2/1/6
Scale interval	1 dm^2
Maximum area	350 dm^2
Minimum area	20 dm^2

In addition the instrument is marked with a notice which states:

"Place leather with any straight edge at an angle to the direction of conveyor movement".

1.3 Sealing

The calibration adjustments are sealed by the stamping plug, which is fitted to the end of the light source housing opposite to that which carries the indicator.

TEST PROCEDURE No 2/1/6

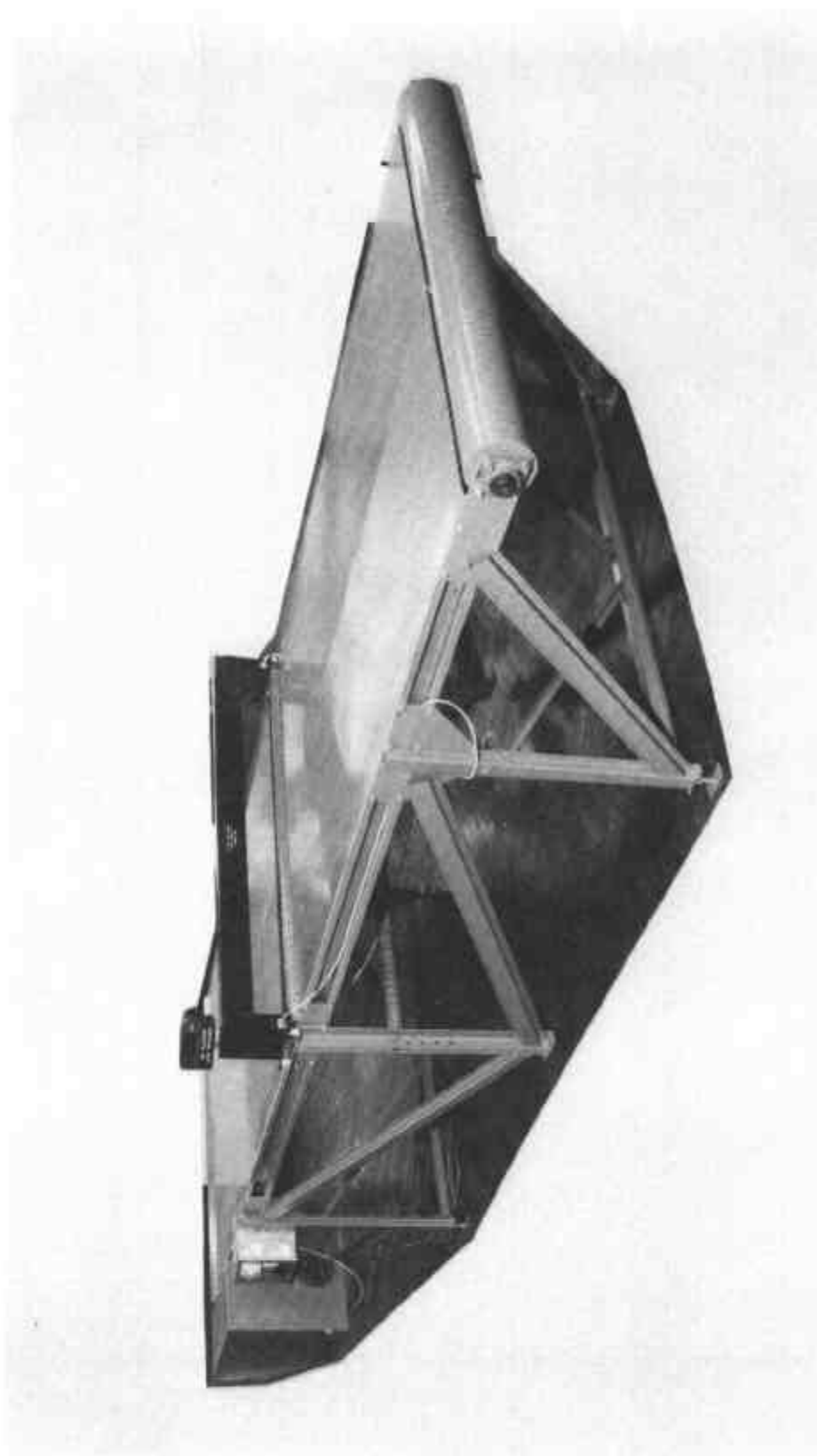
1. Measurement of the templets in the combination of areas listed in Table 1, within tolerance, will establish that the instrument performance is in conformity with the approved pattern.

TABLE 1

Test Area dm ²	Templets dm ²	Tolerance on each of 20 measurements dm ²	Tolerance on mean of 20 measurements dm ²
20	20	± 1	± 0.5
30	10 + 20	± 2	± 1
70	20 + 50	± 2	± 1
80	10 + 20 + 50	± 3	± 1.5
100	100	± 3	± 1.5
120	20 + 100	± 3	± 1.5

Test Procedure - Ellwood Conveyor Area Measuring Instrument

FIGURE 2/1/6 - 1



Ellwood Conveyor Area Measuring Instrument