National Standards Commission

Certificate of Approval

No 6/9C/212

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

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

Glidepath Engineering Model C24 Weighing Instrument

submitted by Glidepath Australia Pty Ltd
Unit 22/26 Wattle Road
Brookvale NSW 2100.

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

..../2

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/3/93.
This approval expires in respect of new instruments on 1/3/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/212 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 drawings and specifications lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalti 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0.

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

DESCRIPTIVE ADVICE

Pattern: approved 8/2/88

. A Glidepath Engineering model C24 class 4 self-indicating weighing instrument of 100 kg maximum capacity.

Technical Schedule No 6/9C/212 describes the pattern.

Variant: approved 18/7/88

1. With a load receptor of 1500 mm in length.

Technical Schedule No 6/9C/212 Variation No 1 describes variant 1.

Variant: approved 26/3/90

2. With a model C24A basework and approved for use with up to 1000 verification scale intervals.

Technical Schedule No 6/9C/212 Variation No 2 describes variant 2.

FILING ADVICE

Certificate of Approval No 6/9C/212 dated 29/9/88 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/212 dated 26/10/90
Technical Schedule No 6/9C/212 dated 1/6/88 (incl. Test Procedure)
Technical Schedule No 6/9C/212 Variation No 1 dated 29/9/88
Technical Schedule No 6/9C/212 Variation No 2 dated 26/10/90
Figures 1 to 3 dated 1/6/88
Figures 4 and 5 dated 26/10/90

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/212

Pattern: Glidepath Engineering Model C24 Weighing Instrument.

Submittor: Glidepath Engineering Limited
12 Shirlow Street
Marrickville NSW 2204.

1. Description of Pattern

A class 4 self-indicating platform weighing instrument of 100 kg capacity with a verification scale interval of 0.5 kg. The instrument incorporates a conveyor belt but is for static weighing only.

1.1 Basework

The basework (Figures 1 and 2) has six levelling feet supporting a rectangular frame. Bolted to each end of the frame is a load cell which supports a beam on which sits the conveyor belt assembly. The frame, side panels and conveyor form part of the weighing instrument.

1.2 Load Cells

Two ATRAX model SPC-300L-ILN load cells of 300 kg capacity are used.

1.3 Indicator

A Consolidated Controls model UMC1000-23 (*) dual display digital indicator (Figure 3) is used to digitise the output from the two load cells and control the conveyor. (* - Note that the suffix '23' may be omitted in some cases).

1.3.1 Display Check and Zero Setting

When power is applied to the instrument, the display will blank, then show all 8's, and then display " - - - - ". Zero is then set by pressing the zero button.

1.3.2 Totalising Facility

A totalising facility may be fitted whereby successive weighings may be summed by the use of the ADD TOTAL button, provided that the scale is returned to within its zero range between weighings. Pressing the DISPLAY TOTAL button will cause the total to be displayed on the mass indicator and a light marked TOTAL to illuminate. A CLEAR TOTAL button resets the totaliser.

1.4 Markings

1.4.1 Instrument

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/9C/212
Accuracy class	(III)
Maximum capacity	Max .... kg *
Minimum capacity	Min .... kg *
Verification scale interval	e=d= .... kg *

* Repeated adjacent to each reading face.

..../2

1.4.2 Load Cells

The following is the minimum data required to be marked on the load cells:

Manufacturer's name or mark
Model number
Serial number
Maximum capacity

1.5 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE No 6/9C/212

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

The results shall not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986, for a class 4 instrument.

1. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity. The device shall be capable of both negative and positive adjustments of at least one-quarter of the zero adjustment range. With zero balance indicated apply a load of, say, 3.5% of maximum capacity, turn the power off and then back on, and then press the zero button; the instrument should not rezero.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/212

VARIATION No 1

Pattern: Glidepath Engineering Model C24 Weighing Instrument.

Submittor: Glidepath Engineering Limited
12 Shirlow Street
Marrickville NSW 2204.

1. Description of Variant 1

With a 1500 mm long load receptor in lieu of the 2000 mm load receptor of the pattern.

The basework has four levelling feet supporting a rectangular frame.

National Standards Commission

TECHNICAL SCHEDULE No 6/9C/212

VARIATION No 2

Pattern: Glidepath Engineering Model C24 Weighing Instrument

Submittor: Glidepath Australia Pty Ltd
Unit 22/26 Wattle Road
Brookvale NSW 2100.

1. Description of Variant 2

With a model C24A basework (Figure 4) and approved for use with up to 1000 verification scale intervals.

The instrument is approved for use with a maximum capacity of either 100 or 150 kg, and with a verification scale interval of 0.1 kg or 0.2 kg, respectively.

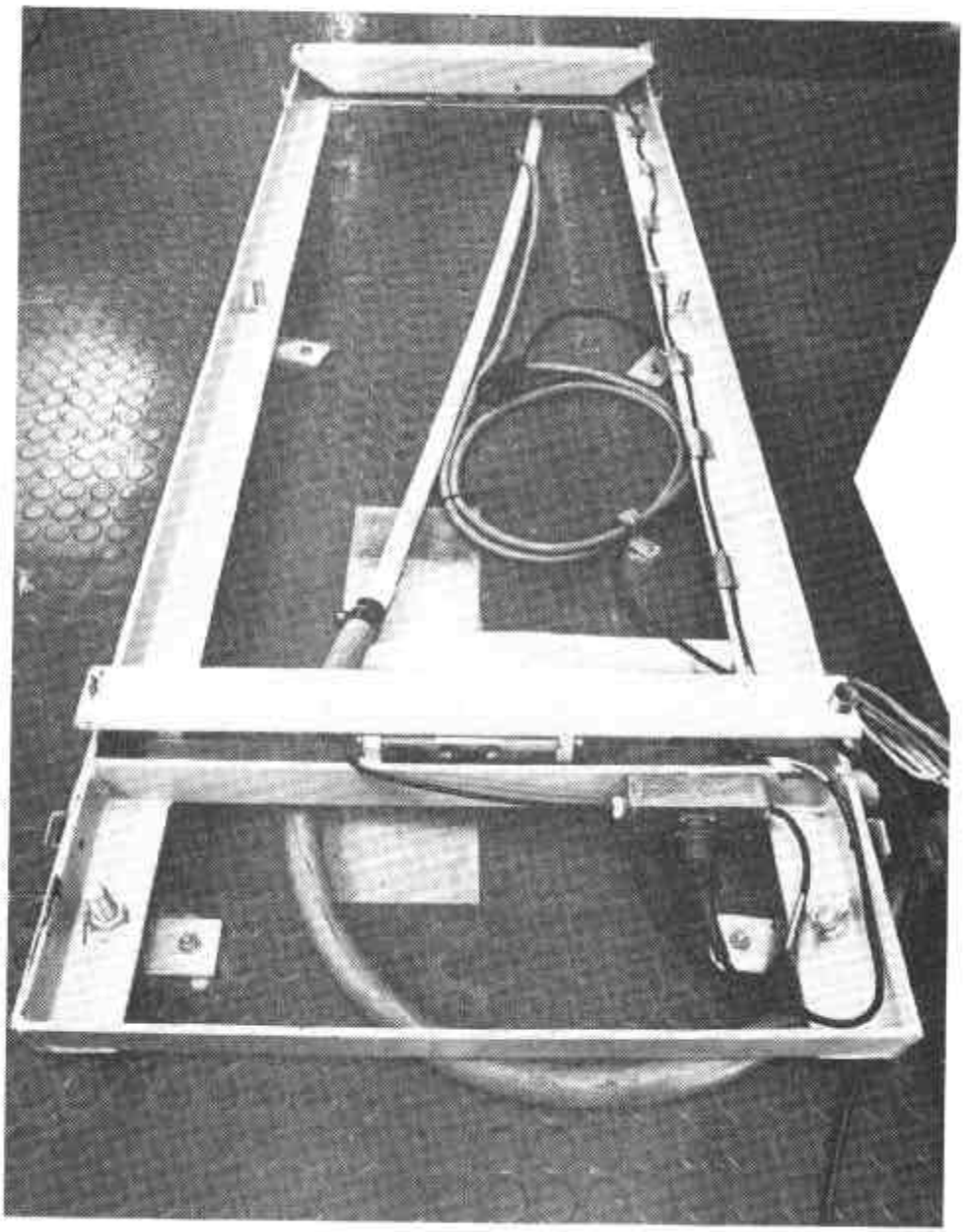
1.1 Load Cells

The basework is fitted with 4 ATRAX model ASB load cells of 125 kg capacity mounted as shown in Figure 5.

The load cells shall be marked in accordance with cl. 1.4.2 of Technical Schedule No 6/9C/212 dated 1/6/88.

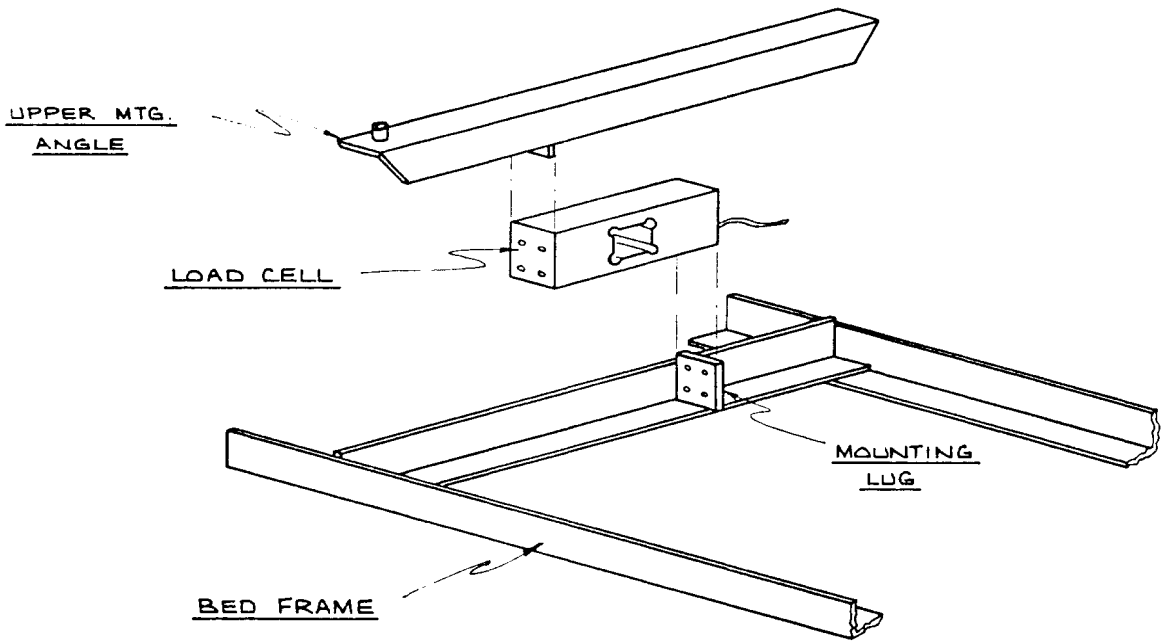
Only this make, model and capacity of load cell shall be used.

FIGURE 6/9C/212 - 1



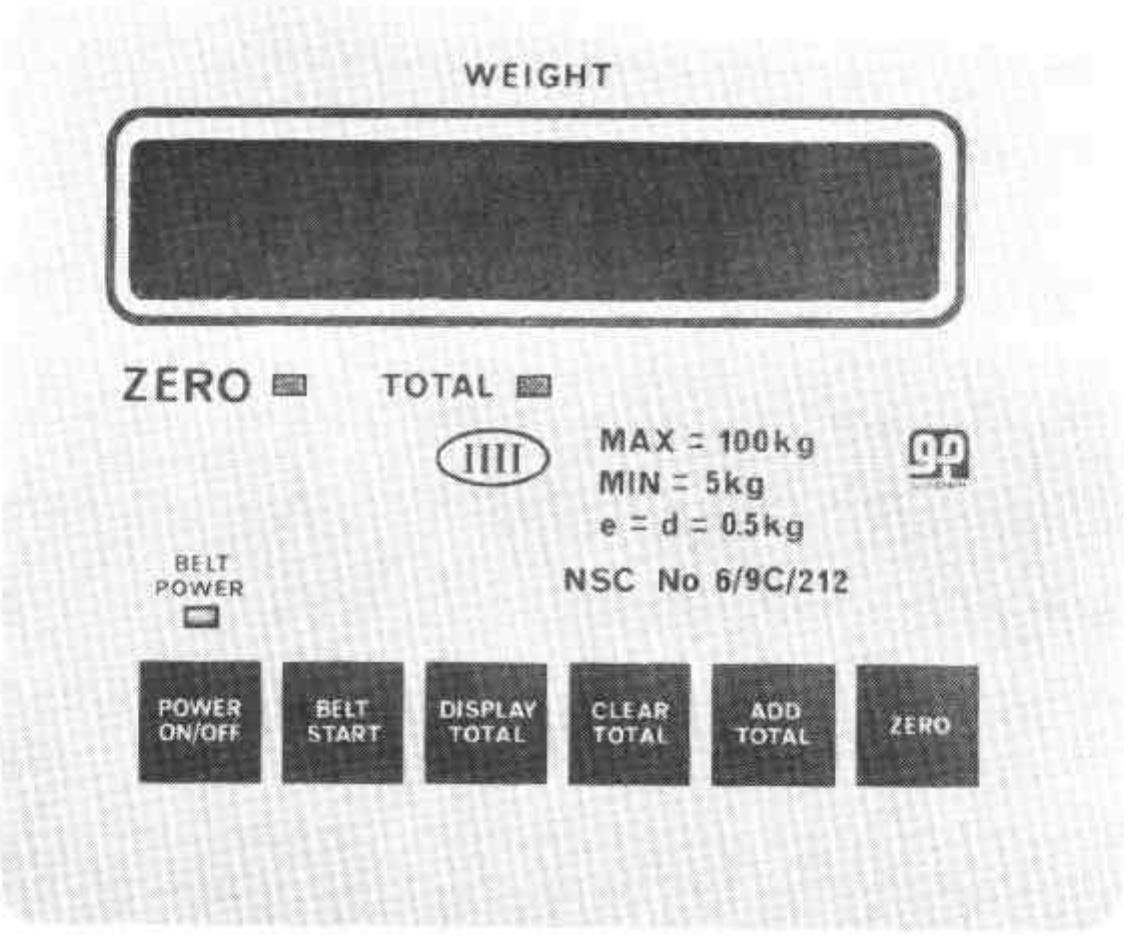
Glidepath C24 Basework

FIGURE 6/9C/212 - 2



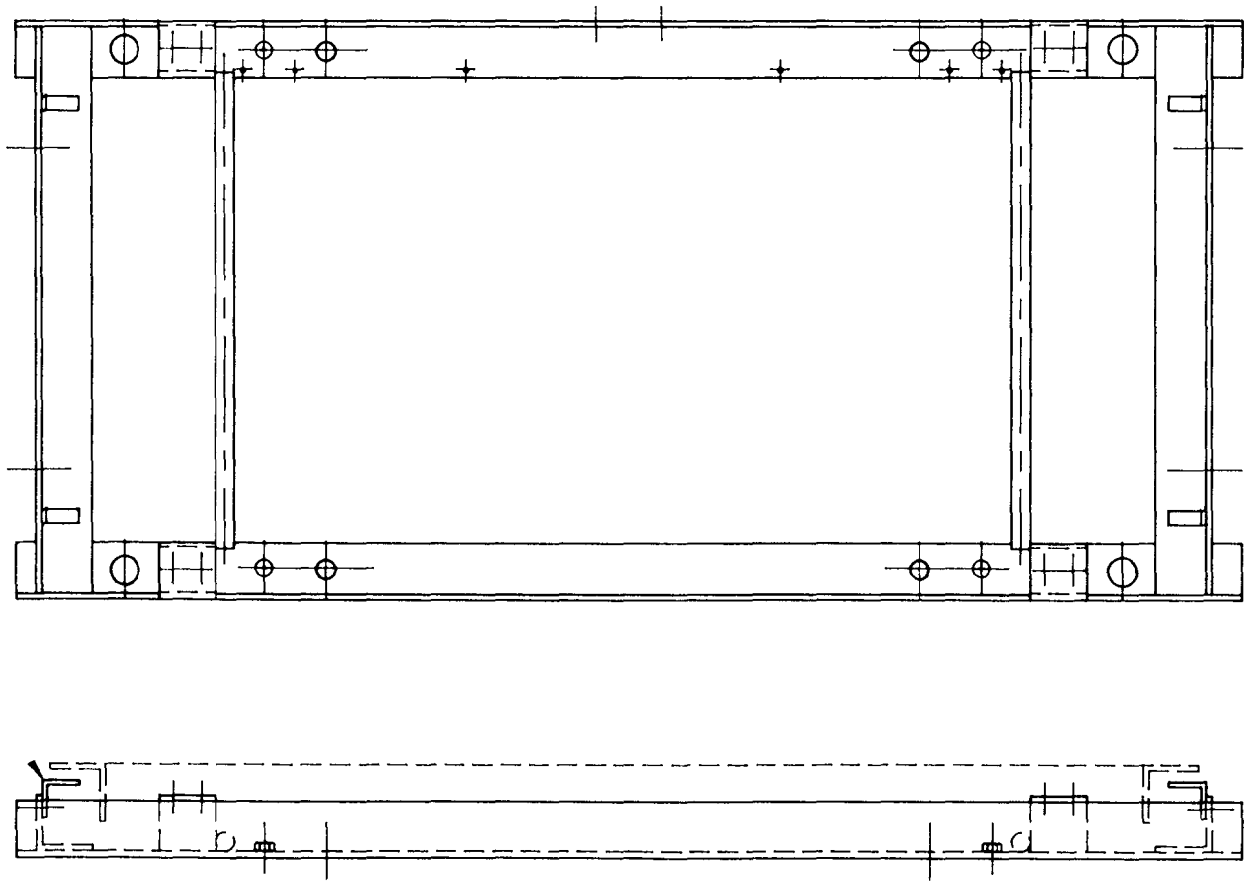
Showing Load Cell Mounting

FIGURE 6/9C/212 - 3



Consolidated Controls Indicator

FIGURE 6/9C/212 - 4



Glidepath Model C24A Basework

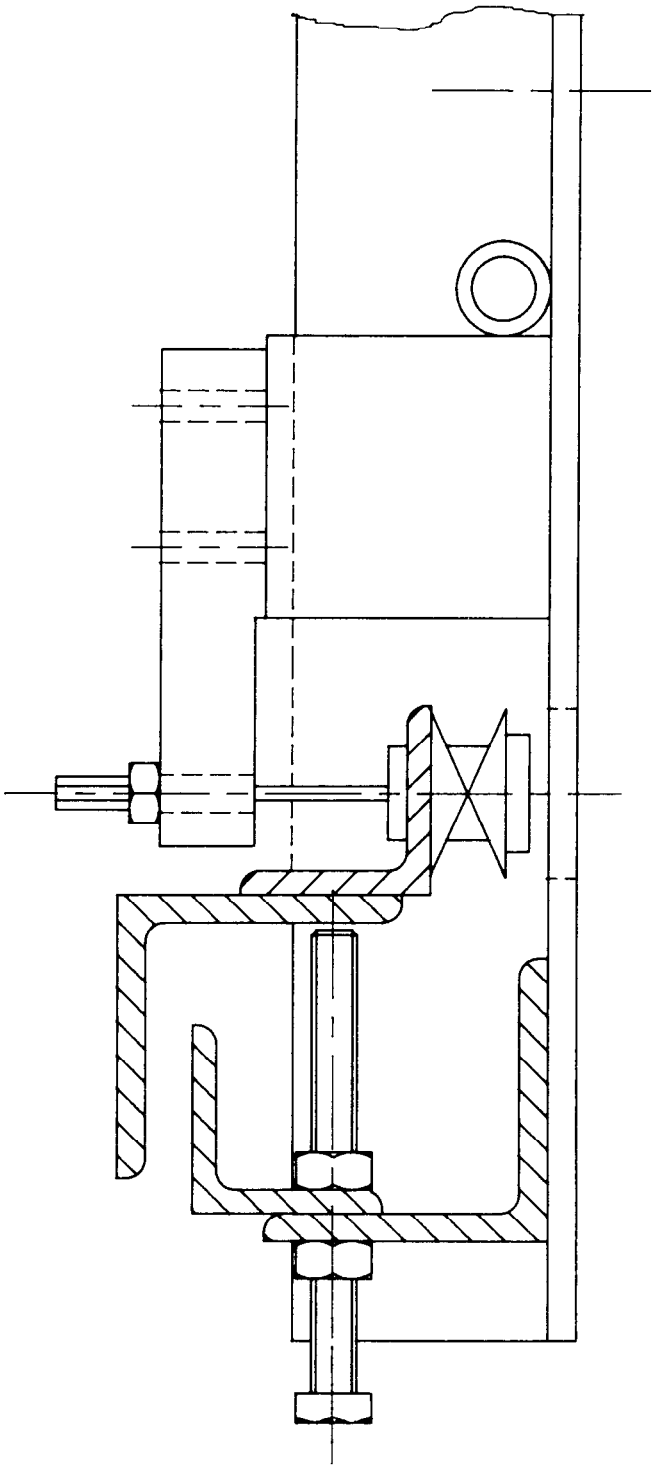


FIGURE 6/9C/212 - 5

Load Cell Mounting For Model C24A