



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S176B

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

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

Avery Weigh-Tronix Model 8708 Load Cell

submitted by Avery Weigh-Tronix
Foundry Lane
Smethwick
West Midlands B662LP UK

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval becomes subject to review on **1/09/18**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	7/08/98
1	Pattern approved – certificate issued	30/11/98
2	Pattern amended & reviewed– notification of change issued	19/11/04
3	Pattern amended & reviewed– notification of change issued	13/03/09
4	Pattern reviewed & updated – certificate issued	7/02/14

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI (or NSC) S176B' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI (or NSC) S176B' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) 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 document NMI P 106.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Dr A Rawlinson

TECHNICAL SCHEDULE No S176B

1. Description of Pattern

**approved on 7/08/98
re-approved on 7/02/14**

An Avery Weigh-Tronix (#) model 8708 load cell of 7000 kg maximum capacity (Figure 1 and Table 1) approved for use with up to 3000 verification scale intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figures 2 and 3.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Avery Weigh-Tronix (#)
Model number	8708
Serial number
Pattern approval mark	NMI (or NSC) No S176B
Maximum capacity, E_{max}	7000 kg

1.3 Table of Specifications

TABLE 1

Type: Avery Weigh-Tronix (#) Model 8708

Maximum capacity, E_{max}	7000 kg
Accuracy class	C
Maximum number of verification scale intervals	3000
Minimum value of verification scale interval	1.39 kg
Minimum dead load output return value (DR)	1.58 kg
Output rating (nominal)	1.75 mV/V
Input impedance (nominal)	410 Ω
Supply voltage (AC or DC)	10 to 17 V
Cable length (± 0.1 m)	1.5 to 10 m
Number of leads (plus shield)	6

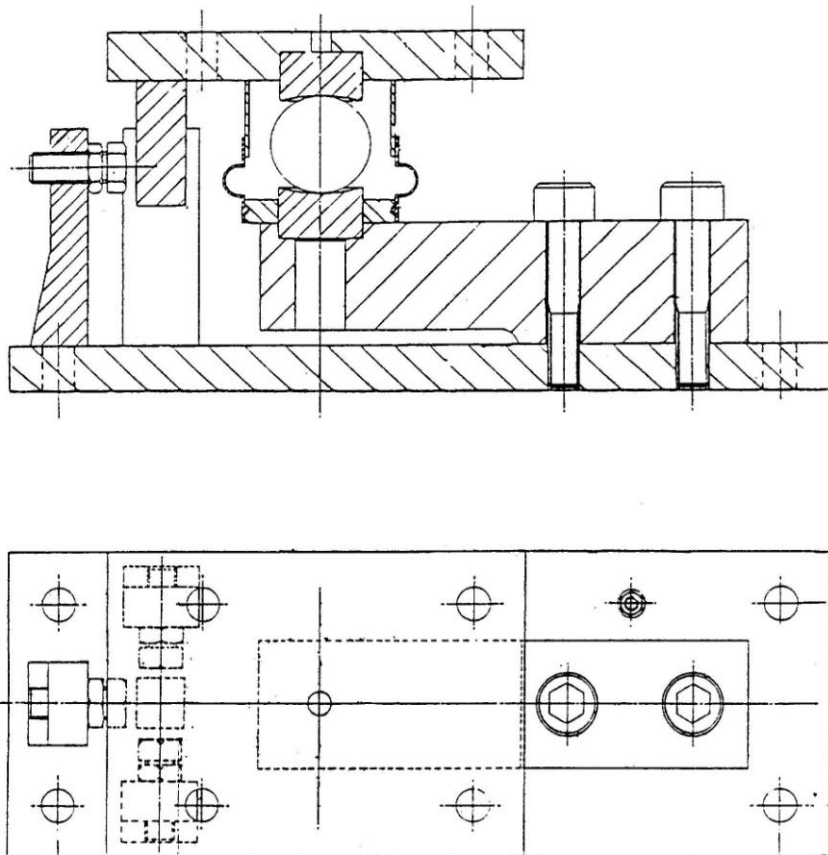
(#) May also be known as 'Avery Berkel' load cells of the same model.

FIGURE S176B – 1



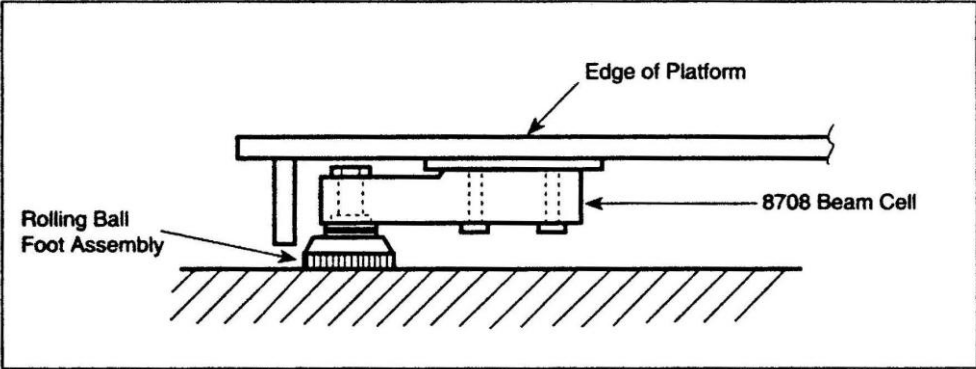
Avery Weigh-Tronix Model 8708 Load Cell

FIGURE S176B – 2

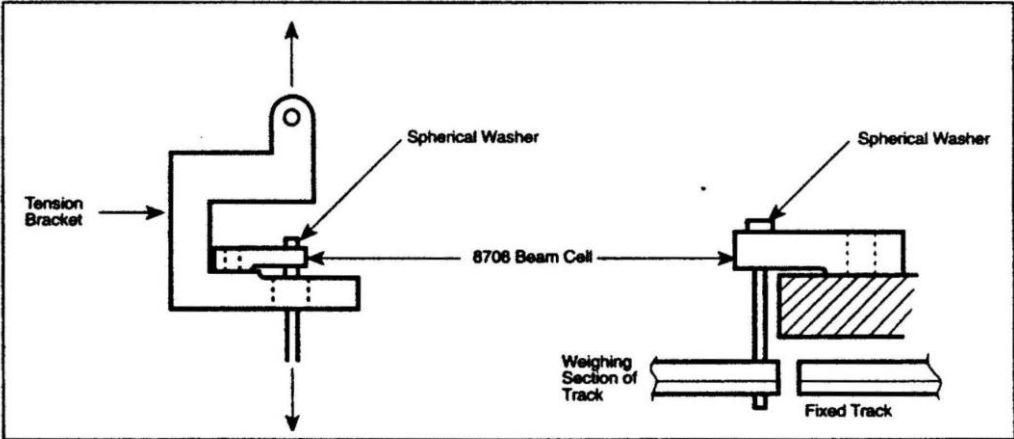


Typical Mounting Method

FIGURE S176B – 3



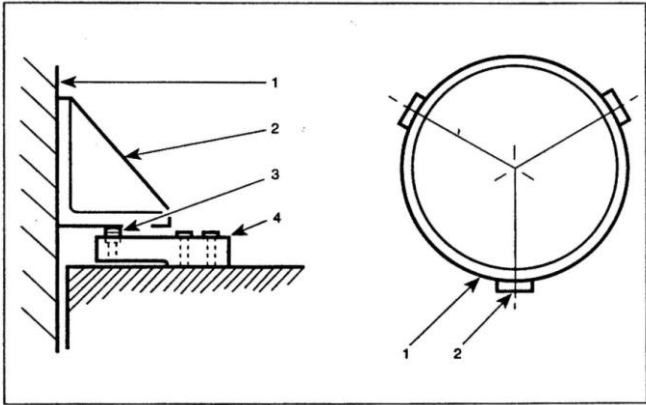
Loading example - Low Profile Platform Scale.



Loading example - Overhead Track Scale.

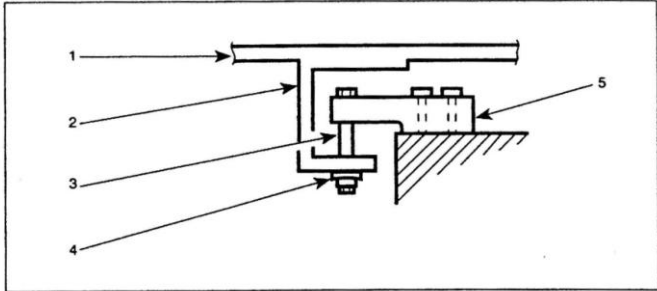
**Tank or Hopper
Weigher -
Compression**

- 1. Tank or Hopper.
- 2. Tank Support Bracket.
- 3. Load Button Insert.
- 4. 8708 Beam Cell.



**Platform or Tank
Weigher - Tension**

- 1. Platform or Container Base.
- 2. Loading Bracket.
- 3. Tension Link.
- 4. Spherical Washer.
- 5. 8708 Beam Cell.



Dimensions

Alternative Mounting Methods