



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

# Supplementary Certificate of Approval NMI S358

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.

Flintec Model SB5 Load Cell

submitted by           Ultrahawke Pty Ltd  
                                  2/9 Production Drive  
                                  Campbellfield   VIC   3061

**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 **1/09/21**, and then every 5 years thereafter.

### DOCUMENT HISTORY

| Rev | Reason/Details                                                              | Date     |
|-----|-----------------------------------------------------------------------------|----------|
| 0   | Pattern approved – interim certificate issued                               | 5/08/98  |
| 1   | Pattern approved – certificate issued                                       | 30/11/98 |
| 2   | Pattern amended (submittor name) & reviewed – notification of change issued | 20/01/04 |
| 3   | Pattern amended (submittor address) – notification of change issued         | 14/10/08 |
| 4   | Pattern updated & <b>reviewed</b> – certificate issued                      | 12/07/16 |
|     |                                                                             |          |

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI (or NSC) S358' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI (or NSC) S358' 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 S358

**1. Description of Pattern** **approved on 5/08/98**

A Flintec model SB5 load cell of 1000 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 to 7.

**1.2 Markings**

Each load cell is marked with the following:

|                                              |                   |
|----------------------------------------------|-------------------|
| Manufacturer's mark, or name written in full | Flintec GmbH      |
| Model number                                 | SB5               |
| Maximum capacity, $E_{max}$                  | ..... kg          |
| Serial number                                | .....             |
| Pattern approval mark                        | NMI (or NSC) S358 |

**1.3 Table of Specifications**

Specifications are given in Table 1.

TABLE 1

Type: Flintec Model SB5

|                                                        |        |
|--------------------------------------------------------|--------|
| Maximum capacity, $E_{max}$ (kg)                       | 1000   |
| Accuracy class (## above)                              | C      |
| Maximum number of verification intervals, nLC          | 3000   |
| Minimum value of verification interval, $v_{min}$ (kg) | 0.1    |
| Minimum dead load output return value, DR (kg)         | 0.065  |
| Output rating (nominal), mV/V                          | 2      |
| Input impedance (nominal), ( $\Omega$ )                | 1106   |
| Supply voltage (AC or DC), (V)                         | 5 – 15 |
| Cable length ( $\pm 0.1$ m), (m)                       | 3      |
| Number of leads (plus shield)                          | 4      |

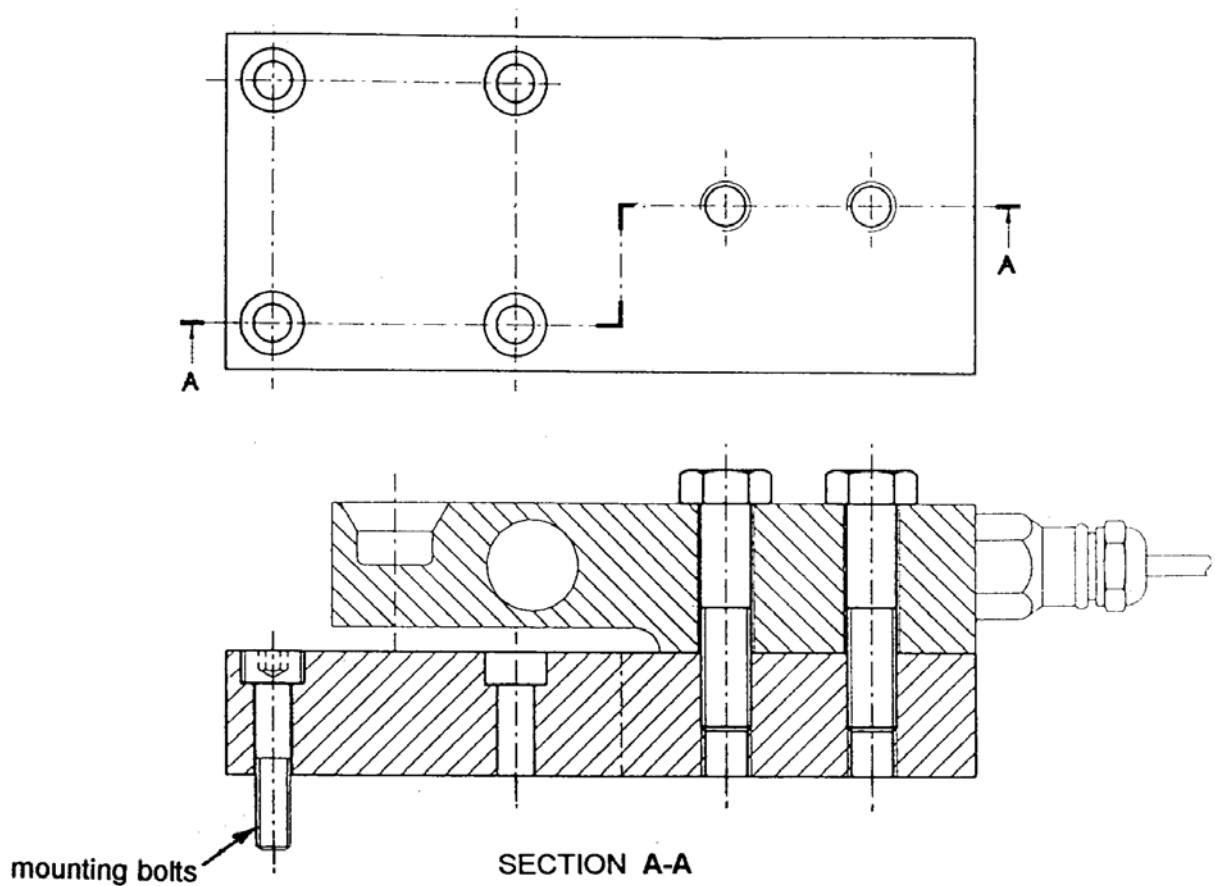
FIGURE S358 – 1



Flintec Model SB5 Load Cell

FIGURE S358 – 2

**MOUNTING ATTACHMENT TYPE 52-00**

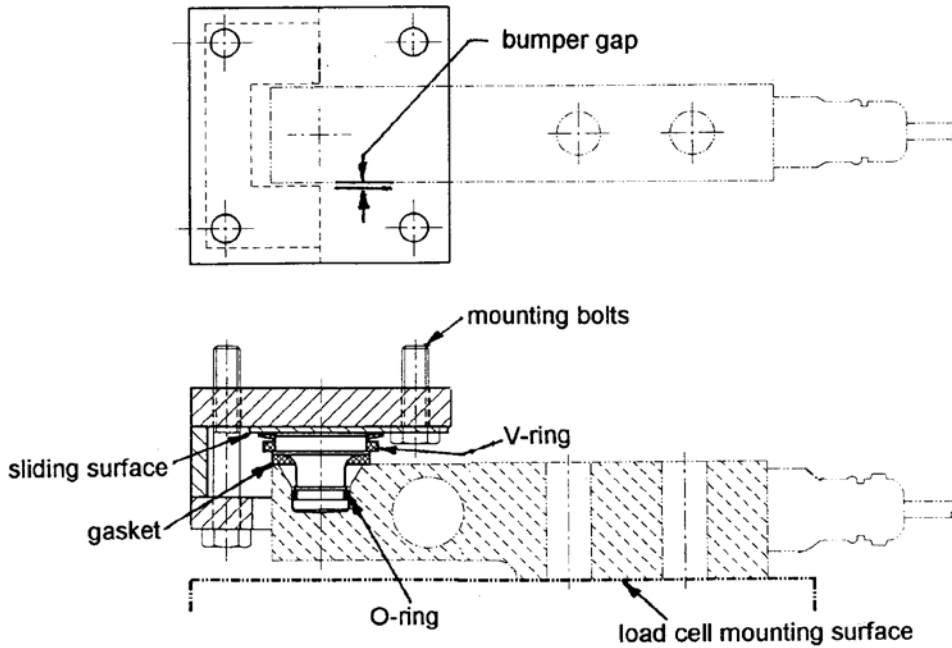


**BASE PLATE**

Approved Mounting Method

FIGURE S358 – 3

**MOUNTING ATTACHMENT TYPE 52-01**

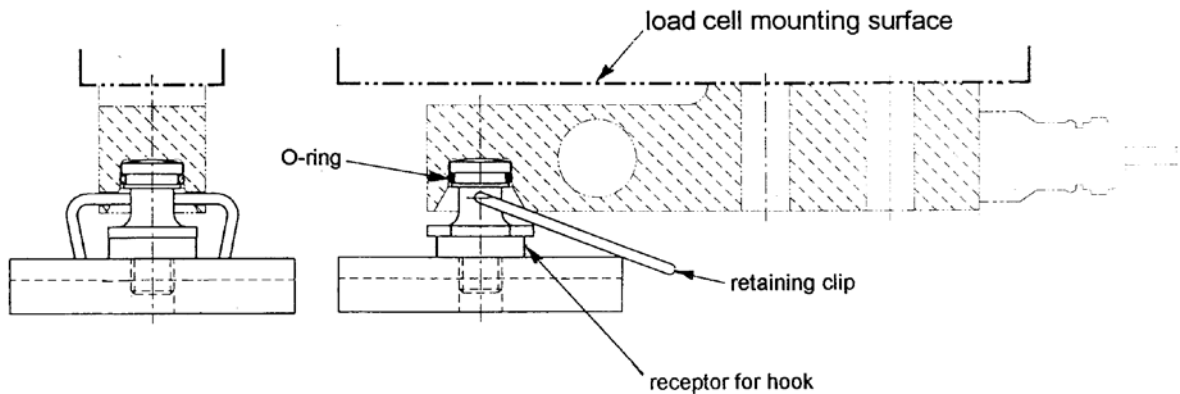


**SLIDING SYSTEM**

Alternative Mounting Method

FIGURE S358 – 4

**MOUNTING ATTACHMENT TYPE 52-02**

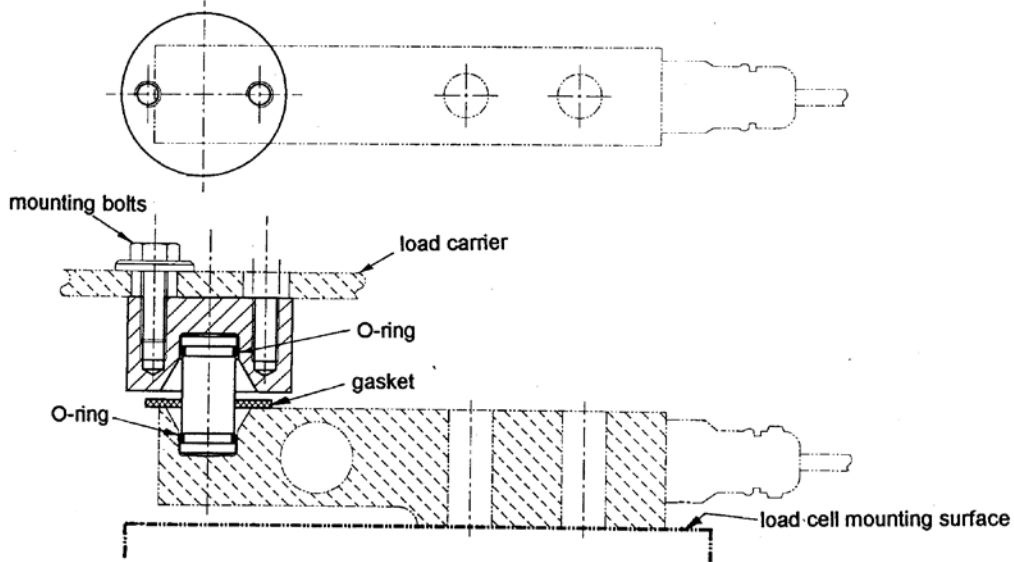


**RUBBER FOOT**

Alternative Mounting Method

FIGURE S358 – 5

**MOUNTING ATTACHMENT TYPE 52-08**

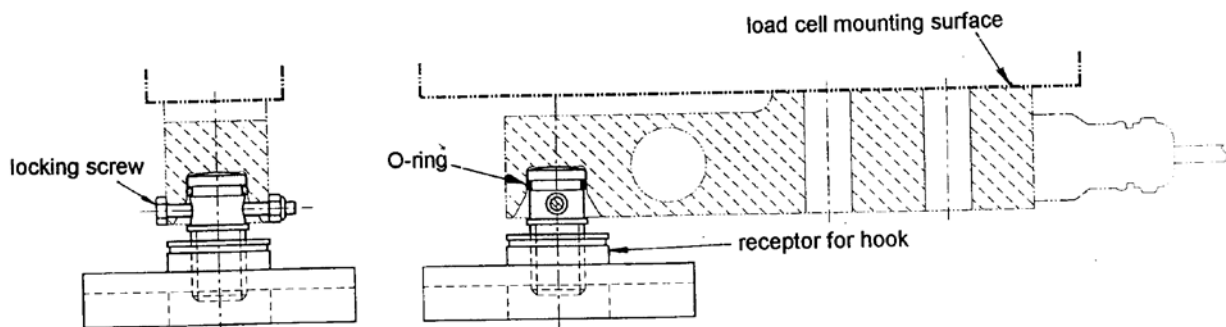


**ROCKER PIN**

Alternative Mounting Method

FIGURE S358 – 6

**MOUNTING ATTACHMENT TYPE 52-10**

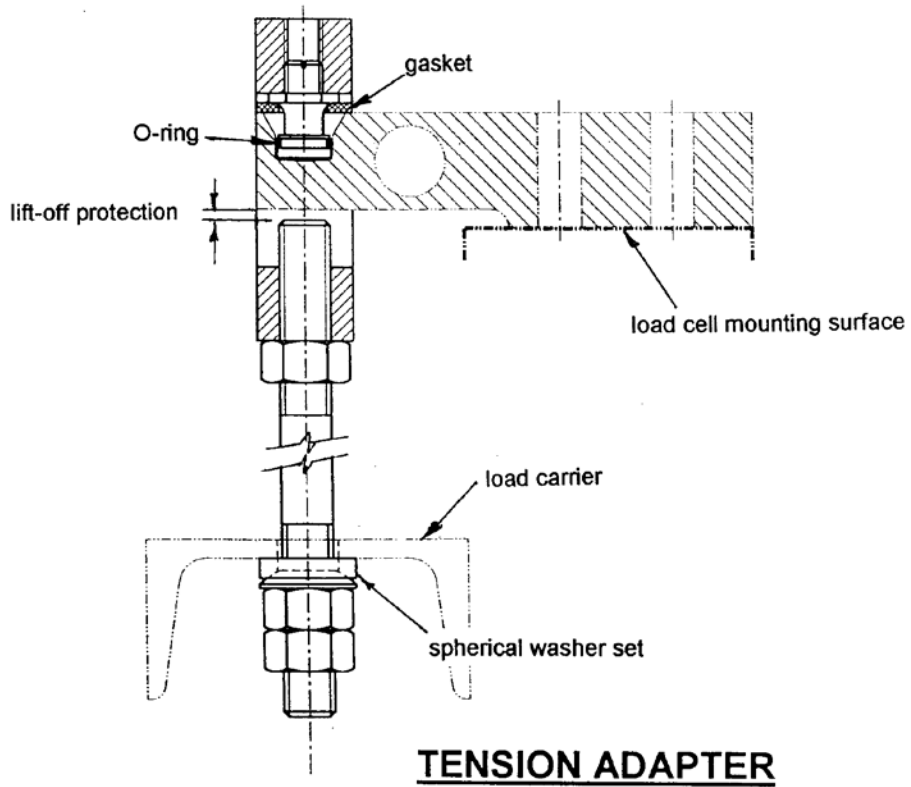


**HEIGHT ADJUSTABLE RUBBER FOOT**

Alternative Mounting Method

FIGURE S358 – 7

**MOUNTING ATTACHMENT TYPE 52-31**



Alternative Mounting Method

~ End of Document ~