Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S530

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.

Allied Weighbridge Model ZSFY-A-30t Load Cell

submitted by S.R.O. Technology Pty Limited
Unit 14, 70 Holbeche Road
Arndell Park NSW 2148

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 is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – interim certificate issued	26/02/10
1	Pattern and variant 1 approved – certificate issued	05/05/10
2	Pattern amended (submittor name and markings) – certificate issued	10/03/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number ‘NMI S530’ and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked ‘NMI S530’ in addition to the approval number of the instrument, 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 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*.

Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S530

1. Description of Pattern **approved on 26/02/10 amended on 10/03/23**

An Allied Weighbridge model ZSFY-A-30t load cell of 30 000 kg maximum capacity (Figure 1 and Table 1).

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	S.R.O. Technology Pty. Limited (**)
Model number	ZSFY-A-*t (#)
Maximum capacity, E_{max}	…….. kg (or t)
Serial number	…….
Pattern approval mark	NMI S530

(#) In the model number, '*' represents the maximum capacity in tonnes.

(**) 'S.R.O. Technology Pty. Limited' may also be known as 'Allied Weighbridge Pty Ltd'.

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 26/02/10**

Load cells of other capacities and characteristics as listed in Table 1.

TABLE 1

Allied Weighbridge ZSFY-A Series Load Cells

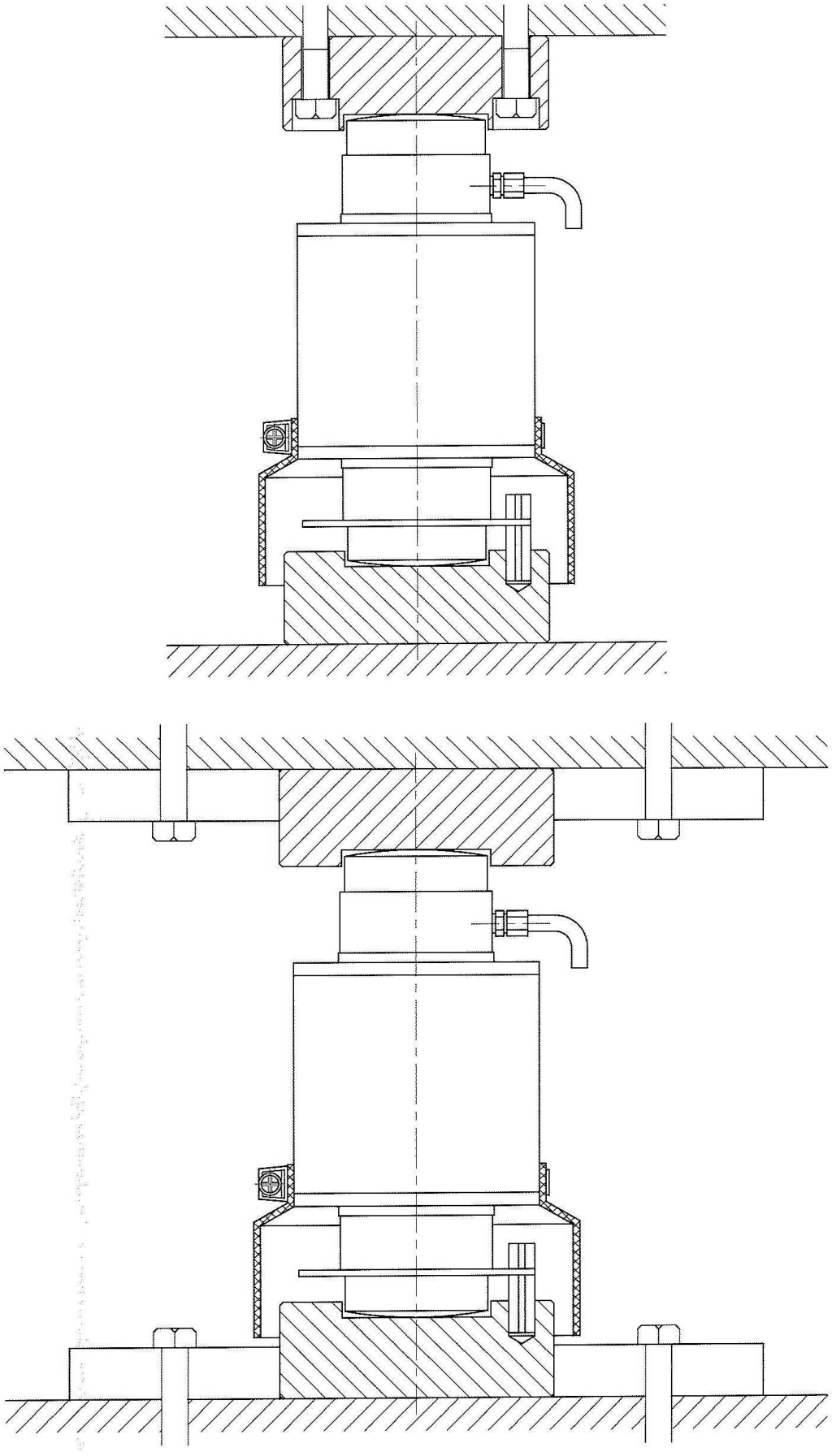
Model	ZSFY-A-10t	ZSFY-A-20t	ZSFY-A-30t (#)
Maximum capacity, *Emax*	10 000 kg	20 000 kg	30 000 kg
Accuracy class	C		
Maximum number of verification intervals, nLC	3000		
Minimum value of verification interval, *Vmin*	1 kg	2 kg	3 kg
Minimum dead load output return value, (DR)	1.67 kg	3.33 kg	5 kg
Output rating (nominal)	2 mV/V		
Input impedance (nominal)	780 Ω		
Maximum supply voltage	15 V (DC)		
Maximum cable length	8	12	14
Number of leads	4 or 6 (plus shield)		

(#) The pattern.

FIGURE S530 – 1

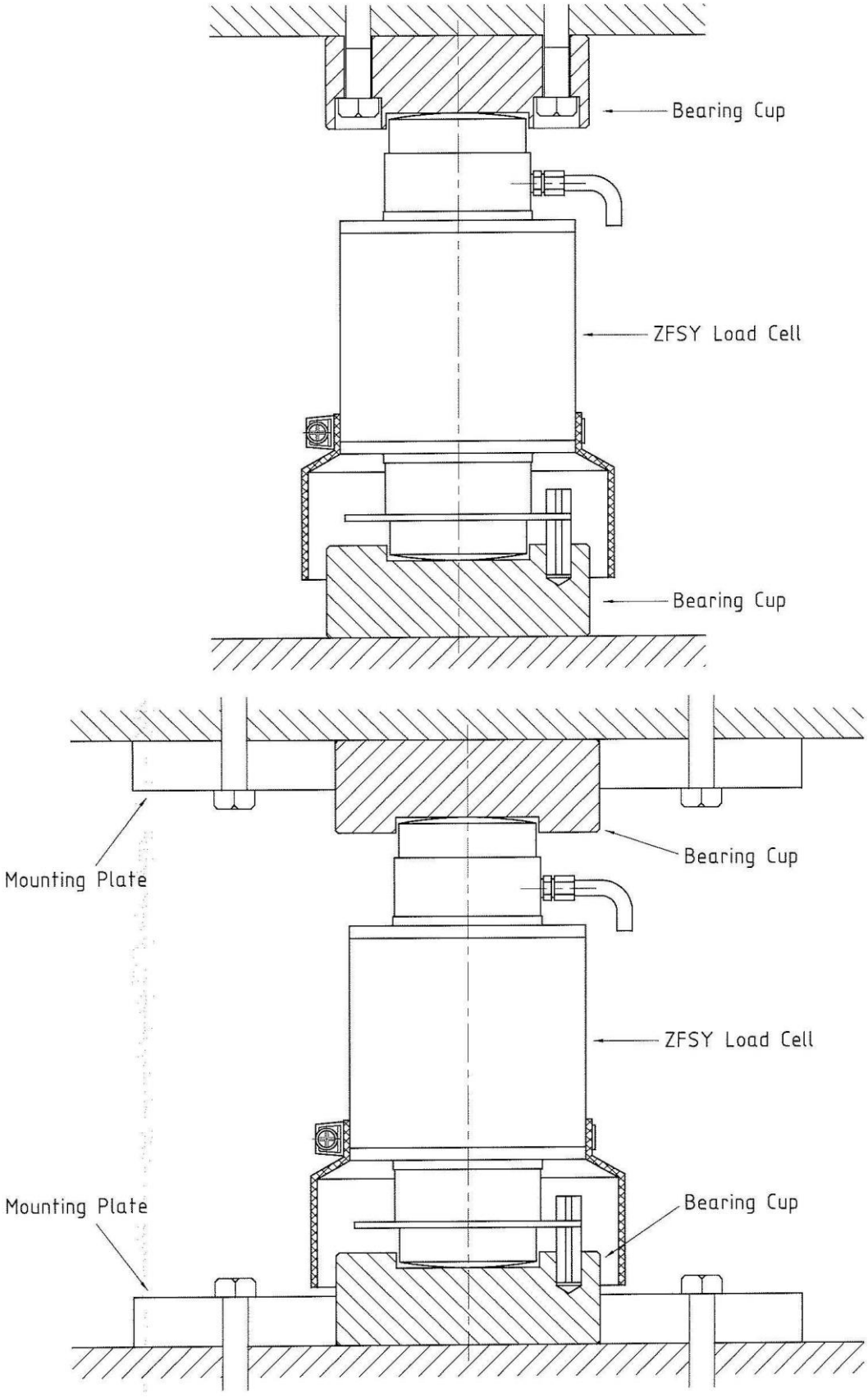
Allied Weighbridge Model ZSFY-A-30t Load Cell

FIGURE S530 – 2



Some Typical Mounting Arrangements

FIGURE S530 – 3



Other Typical Mounting Arrangements

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