



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Supplementary Certificate of Approval
No S380

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

Eurocell Model NTI-C3 Load Cell

submitted by National Weighing & Instruments Pty Ltd
3/148 Toongabbie Road
Toongabbie NSW 2140.

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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 November 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NSC S380' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked approval number 'NSC S380' in addition to the approval number of the instrument.

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 National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

DESCRIPTIVE ADVICE

Pattern: approved 23 October 2000

- A Eurocell model NTI-C3 load cell of 500 kg maximum capacity.

Variant: approved 23 October 2000

1. Other models and capacities as listed in Tables 1 to 3.

Technical Schedule No S380 describes the pattern and variant 1.

Variant: approved 3 May 2004

2. Eurocell NTI-C3M series as listed in Table 4.

Technical Schedule No S380 Variation No 1 describes variant 2.

FILING ADVICE

Supplementary Certificate of Approval No S380 dated 17 January 2001 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

- Supplementary Certificate of Approval No S380 dated 13 July 2004
- Technical Schedule No S380 dated 17 January 2001 (incl. Tables 1 to 3, and Test Procedure)
- Technical Schedule No S380 Variation No 1 dated 13 July 2004 (incl. Table 4)
- Figures 1 to 3 dated 17 January 2001

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



TECHNICAL SCHEDULE No S380

Pattern: Eurocell Model NTI-C3 Load Cell.
Submittor: National Weighing & Instruments Pty Ltd
3/148 Toongabbie Road
Toongabbie NSW 2146

1. Description of Pattern

A Eurocell model NTI-C3 load cell of 500 kg maximum capacity (Figure 1 and Table 1) approved for use with up to 3000 verification intervals.

1.1 Method of Mounting

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

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Soc. Coop. Bilanciai, Italy
Model number
Serial number
Pattern approval mark	NSC No S380
Maximum capacity E_{max} kg or t

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1

Other models and capacities as listed in Tables 1 to 3.

TABLE 1

Type: Eurocell NTI-C3 Series

Maximum capacity, E_{max}	kg	500	1000	2000
Accuracy class		C	C	C
Maximum number of verification intervals		3000	3000	3000
Minimum value of verification interval, v_{min}	kg	0.042	0.083	0.167
Minimum dead load output return value (DR)	kg	0.080	0.160	0.320
Output rating (nominal)	mV/V	2	2	2
Input impedance (nominal)	Ω	350	350	350
Supply voltage (AC or DC)	V	5 - 15	5 - 15	5 - 15
Cable length (± 0.1 m)	m	5	5	5
Number of leads (plus shield)		4	4	4

TABLE 2

Type: Eurocell NTI-C2 Series

Maximum capacity, E_{max}	kg	500	1000	2000
Accuracy class		C	C	C
Maximum number of verification intervals		2000	2000	2000
Minimum value of verification interval, v_{min}	kg	0.071	0.143	0.286
Minimum dead load output return value (DR)	kg	0.125	0.250	0.500
Output rating (nominal)	mV/V	2	2	2
Input impedance (nominal)	Ω	350	350	350
Supply voltage (AC or DC)	V	5 - 15	5 - 15	5 - 15
Cable length (± 0.1 m)	m	5	5	5
Number of leads (plus shield)		4	4	4

TABLE 3

Type: Eurocell NTI-C1 Series

Maximum capacity, E_{max}	kg	500	1000	2000
Accuracy class		C	C	C
Maximum number of verification intervals		1000	1000	1000
Minimum value of verification interval, v_{min}	kg	0.100	0.200	0.400
Minimum dead load output return value (DR)	kg	0.250	0.500	1.000
Output rating (nominal)	mV/V	2	2	2
Input impedance (nominal)	Ω	350	350	350
Supply voltage (AC or DC)	V	5 - 15	5 - 15	5 - 15
Cable length (± 0.1 m)	m	5	5	5
Number of leads (plus shield)		4	4	4

TECHNICAL SCHEDULE No S380
VARIATION No 1

Pattern: Eurocell Model NTI-C3 Load Cell

Submittor: National Weighing & Instruments Pty Ltd
3/148 Toongabbie Road
Toongabbie NSW 2140

1. Description of Variant 2

Certain models and capacities of the Eurocell NTI-C3M series as listed in Table 4.

TABLE 4

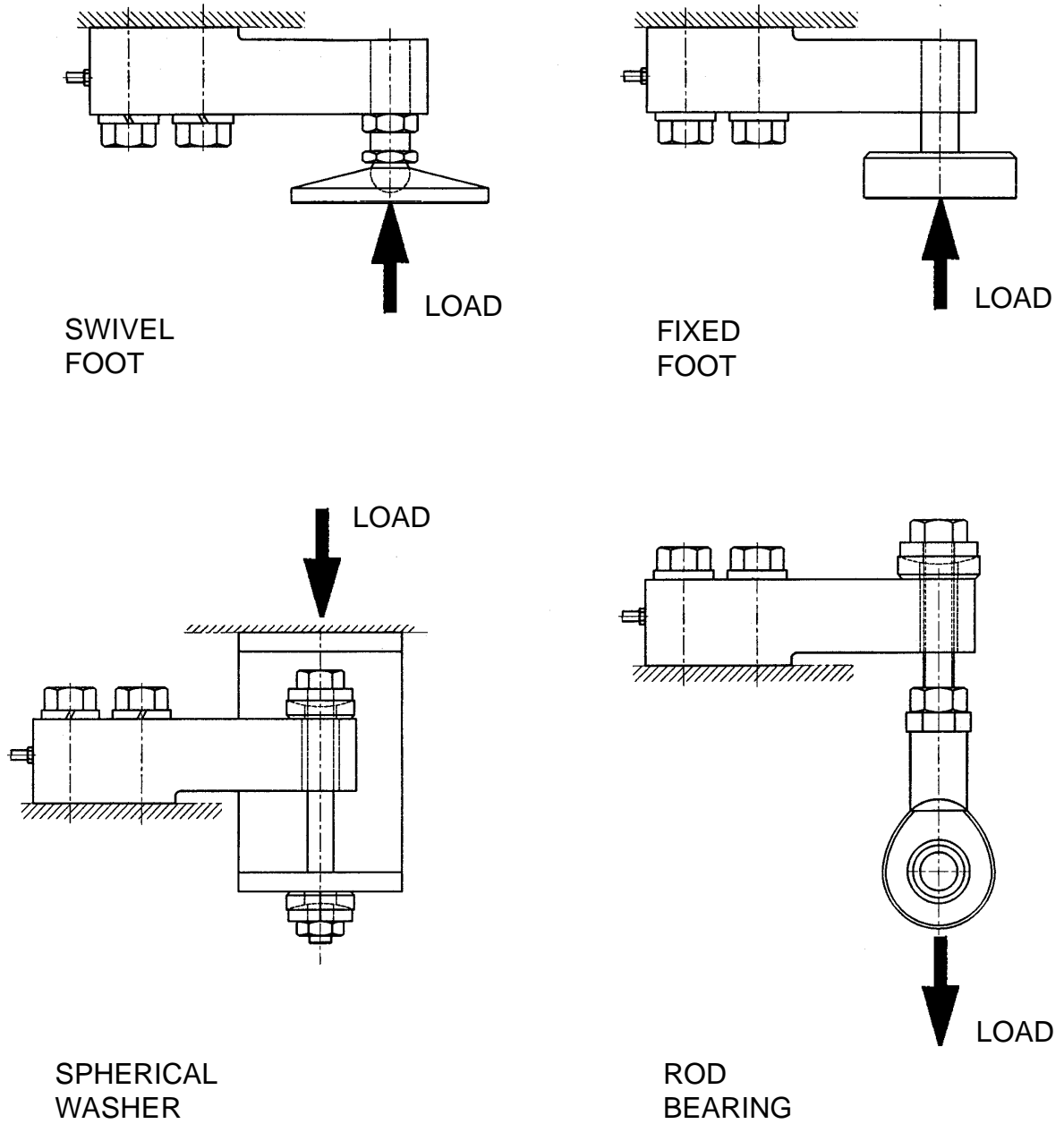
Type:	Eurocell NTI-C3M Series			
Maximum capacity, E_{max}	kg	500	1000	2000
Accuracy class		C	C	C
Maximum number of verification intervals		3000	3000	3000
Minimum value of verification interval, V_{min}	kg	0.03125	0.0625	0.125
Minimum dead load output return value (DR)	kg	0.03125	0.0625	0.125
Output rating (nominal)	mV/V	2	2	2
Input impedance (nominal)	ohm	350	350	350
Supply voltage (AC or DC)	V	5 - 15	5 - 15	5 - 15
Cable length (± 0.1 m)	m	5	5	5
Number of leads (plus shield)		4	4	4

FIGURE S380 - 1



Typical Eurocell NTI Series Load Cell

FIGURE S380 - 2



Mounting Methods