



**Australian Government**

**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

## **Supplementary Certificate of Approval**

### **NMI S695**

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 RC3-30t-C3 Load Cell

submitted by            Grainline  
                                 1 Hartog Place  
                                 Wagga Wagga    NSW    2650

**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 1/07/20, and then every 5 years thereafter.

#### **DOCUMENT HISTORY**

<b>Rev</b>	<b>Reason/Details</b>	<b>Date</b>
0	Pattern and variant 1 approved – certificate issued	17/06/15

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S695' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S695' 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*.



**Amanda Rawlinson**

TECHNICAL SCHEDULE No S695

**1. Description of Pattern** **approved on 17/06/14**

A Flintec model RC3-30t-C3 stainless steel compression load cell of 30 000 kg maximum capacity (Figure 1 and Table 1) and 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 1 & 2.

**1.2 Markings**

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Flintec GmbH
Model number	.....
Maximum capacity, $E_{max}$	..... kg (or t)
Serial number	.....
Pattern approval mark	NMI S695

**1.3 Table of Specifications**

Specifications for the pattern are given in Table 1.

**2. Description of Variant 1** **approved on 17/06/15**

Certain other models of the Flintec RC3 series with capacities and other characteristics as listed in Table 1.

Type: Flintec RC3-#t-C3 series as listed below, where # in the model number represents the capacity ( $E_{max}$ ) in tonnes, e.g. the pattern model RC3-30t-C3 is of 30 000 kg capacity.

TABLE 1 – Approved Models and Specifications

Model Number	#=30t	#=40t	#=50t
$E_{max}$ (kg)	30 000	40 000	50 000
Class	C	C	C
nLC	3000	3000	3000
$V_{min}$ (kg)	2	2.67	3.33
DR (kg)	2.14	2.86	3.57
mV/V	1.67 or 2		
Input imp ( $\Omega$ )	1150		
Voltage (V)	15		
Cable length (m)	15		
Number of leads (plus shield)	4		

Where:

$E_{max}$	=	Maximum capacity
$E_{min}$	=	Minimum dead load
nLC	=	Maximum number of verification intervals
$V_{min}$	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

FIGURE S695 – 1



Flintec Model RC3-30t-C3 Load Cell (The Pattern) – Standard Mounting

FIGURE S695 – 2



Flintec RC3 Series Alternative (Rocker System) Mounting Arrangement