

<b>Report No.</b> ITT/121/29/02	<b>INITIAL TYPE TESTING REPORT</b> This ITT report contains revised and/or additional grading machine settings to those given in EN 14081-4:2009.	<b>DATE OF ISSUE</b> November 2014
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Note. ITT reports for EN 14081-4 are numbered using the initials ITT followed by three numbers separated by slashes. The first number denotes the number of each report in chronological order. The second number denotes the number for the particular type of grading machine as given in EN 14081-4:2009. The third number gives the report number for the type of machine in chronological order.

## GRADING MACHINE

The settings in this ITT report are relevant to the **ViSCAN-portable WITH balance** timber strength grading machine.

## MANUFACTURER

The manufacturer of the ViSCAN-portable WITH balance timber grading machine is:

MiCROTEC s.r.l. - GmbH  
Via Julius Durst 98  
39042 Bressanone (BZ)  
Italy

## REFERENCE

Clause 5 of EN 14081-4:2009 contains the following paragraph:

‘The accepted grading machines and settings in this European Standard are based on initial type testing (ITT) and initial type calculation (ITC). When additional ITT and ITC documentation from the manufacturers has been evaluated by CEN/TC124/TG1 and the accepted values are given in an ITT report, which is the basis for certification by the Notified Bodies overseeing the producers factory production control (FPC). Those ITT reports may be used as ITT documentation before the information they contain becomes available in an amendment or revision of this European Standard, EN 14081-4.’


This ITT report is one of a number of reports to which the above paragraph refers and may therefore be used as documentation prior to a further revision of EN 14081-4, or until it is superseded by a later dated ITT report for the same grading machine.

## CHANGES TO SETTINGS LISTED IN EN 14081-4:2009

The settings listed in the following tables 29-1 to 29-11 which are the subject of the research reports listed in the table titles, have been assessed by CEN TC124/TG1 and are approved for use in the production of structural timber to EN 14081-1 from the date of this ITT report.

The existing tables 29-1 to 29-5 given in previous ITT reports are superseded by the tables given in this ITT report. Tables 29-6 to 29-11 are new tables.

On behalf of CEN TC 124/TG1  
Signature of convener



Date      November 2014

**Table 29-6 — Settings for ViSCAN-portable WITH balance (Model given in TG1/201410/02rev) (continued)**

Source country or countries	Source mark <sup>a</sup>	Species	Permitted timber size <sup>b</sup> (mm)	Grade <sup>c</sup> or grade combination	Model value			Comments and additional requirements
						E <sub>mod</sub>		
Italy	IT	Sweet chestnut <i>Castanea sativa</i>	45 ≤ t <sub>n</sub> ≤ 198 72 ≤ b <sub>n</sub> ≤ 198	D35		13 900		<p>Requirements for grading:</p> <ul style="list-style-type: none"><li>– Timber temperature: &gt; -10°C.</li><li>– If the timber temperature is between -10°C and -20°C then E<sub>mod</sub> shall be adjusted to be more conservative by 2%.</li><li>– Whenever the machine uses the measured moisture content and adjusts the indicating property for each individual piece, the moisture content of each piece shall be between 4% and 24% otherwise, the mean moisture content of the batch shall be between 8% and 24%, and all individual pieces in the batch may not fall four percentage points below the mean value.</li><li>– High moisture content (HMC24) option <sup>d</sup>: The moisture content of each piece &gt; 24% and timber temperature &gt; 0°C.</li><li>– Timber surface planed or sawn.</li></ul> <p>cD27 (first c for chestnut) is a user defined strength class. Its primary characteristic values are: f<sub>m,k</sub> = 27 N/mm<sup>2</sup>, E<sub>0,mean</sub> = 10500 N/mm<sup>2</sup>, ρ<sub>k</sub> = 510 kg/m<sup>3</sup> Other characteristic values can be calculated from the equations given in EN 384 for hardwoods.</p> <p>The k<sub>v</sub> factor of EN 384 is not applied for the derivation of the settings.</p> <p>The same settings apply if the following machine operates in ViSCAN-portable mode: ViSCAN-COMPACT and GoldenEye-706.</p>
				D24		8 500		
				D30		12 800		
				D24		8 500		
				cD27		10 000		
				D24		8 500		
				cC35		13 500		
				cC27		8 500		
				cC30		10 200		
				cC27		8 500		
<sup>a</sup> Code identifying the country or region of origin in accordance with EN ISO 3166-1. <sup>b</sup> Timber size shall be to EN 336. <sup>c</sup> Grades prefixed by D are strength classes given in EN 338. Grades prefixed by cC (first c for chestnut) correspond to the C-classes given in EN 338. <sup>d</sup> This requires the machine to have the appropriate software (HMC24 – TG1/201410/01).								