

Dimensional Characteristics of Tiles (Universal Gauges)

2015:1

CEN/10 Series Gauges

These instruments are suitable for determining the flatness, rectilinearity and squareness of ceramic tiles. Built according to UNI EN ISO 10545-2 norm. One single instrument can make all the above three measurements, as provided by the standard. The fixing system of the comparators lets them be positioned in just a few seconds, depending on the tile size to be tested. The same system is used for the surface and lateral supporting feet.

General features:

Aluminium Ergal hard anodized and ground working plane. Ground and burnished steel half-squares. Stainless steel supporting structure. Centesimal comparators, 60 mm. Stainless steel surface and lateral supports.

All models, are supplied complete with 5 centesimal comparators, 8 spare stainless steel supports, for tiles of thickness 8-10 mm and 5 stainless steel feet for tiles thickness 6-8mm All models (except CEN/96-OR/40) are supplied complete with two keys, 5 spare stainless steel supports and 5 centesimal gauges.



ANALOGUE Gauges

Model CEN/10/A-400 instrument preset for sizes: 10x10cm to 40x40cm. Overall dimensions: 50x50x38cm. Net weight: 35kg **01CI2885**

Model CEN/10/A-600 instrument preset for sizes: 10x10cm, to 60x60cm tiles, Overall dimensions: 70x70x38cm. Net weight: 44kg. **01CI2886**

Optional slider for measurement of the length of the side **01CI2885/1**

DIGITAL Gauges

Model CEN/10/E-400 instrument preset for sizes: 10x10cm to 40x40cm. Overall dimensions: 50x50x38cm. Net weight: 35kg **01CI2888**

Model CEN/10/E-600 instrument preset for sizes: 10x10cm, to 60x60cm tiles, Overall dimensions: 70x70x38cm. Net weight: 44kg. **01CI2889**

Optional slider for measurement of the length of the side **01CI2888/1**

CEN/04 Series Universal Gauges for acquiring and managing data.

These instruments are suitable for determining the flatness, rectilinearity squareness and length of the side of ceramic tiles. Built according to UNI EN ISO 10545-2 norm. One single instrument can make all the above four measurements, as required by the standard. The fixing system of the comparators lets them be positioned in just a few seconds, depending on the tile size to be tested. The same system is used for the surface and lateral supporting feet. Power supply: 220V single-phase 50/60Hz

Equipped with six digital comparators and serial cable, interface for connection to a computer complete with serial cable, data CEN/04 software with USB key for data acquiring and management, 8 stainless steel feet for tiles thickness 8-10 mm, 5 stainless steel feet for tiles thickness 6-8mm, and 2 keys.

Model CEN/04D-400 is suitable for the following sizes: 10x10 / 10x20 / 15x15 / 15x20 / 15x30 / 20x20 / 20x25 / 20x30 / 20x40 / 25x25 / 30x30 / 30x40 / 33x33 / 40x40cm

Overall dimensions: 50x50x38 cm, Net weight 37 kg **01CI2883**

Model CEN/04D-600 is suitable for all the above sizes: AND 45x45 / 50x50 / 30x60 / 60x60cm

Overall dimensions: 70x70x38 cm, Net weight 47 kg **01CI2884**

Model CEN/04D-1000 floor standing unit is suitable for all the above sizes AND:

30x50 / 30x45 / 20x50 / 33x60 / 45x90 / 60x80 / 50x100 / 70x70 / 75x75 / 80x80 / 85x85 / 90x90 / 100x100cm

Overall dimensions: 118x118x88 cm, Net weight 90kg **01CI2885/5**

Model CEN/04D-1200 floor standing unit is suitable for all the above sizes AND:

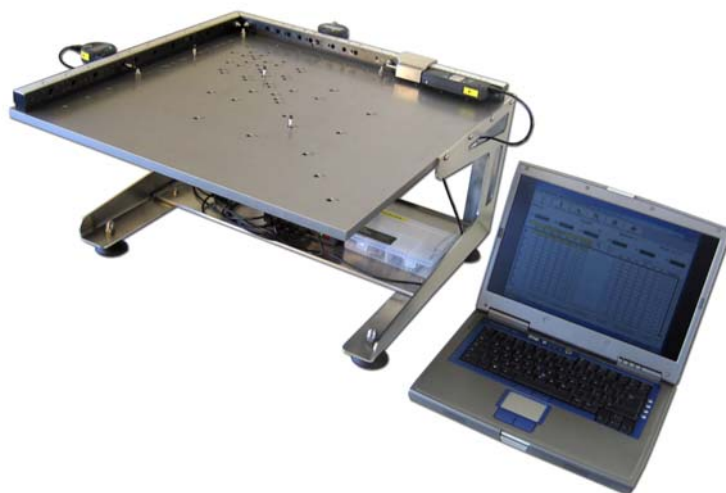
60x120 / 70x120 / 80x120 / 100x120 / 120x120 cm

Overall dims: 138x138x88 cm, Net weight 110kg **01CI2885/6**

Model CEN/04D-1600 floor standing unit is suitable for all the above sizes AND:

Four other sizes (to be specified by the customer up to 160 x 160cm)

Overall dims: 180x180x88 cm, Net weight c.150kg **01CI2885/7**



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Certificate No: 23478

Description of the data CEN/04 software

Software in a Windows environment with guided installation instructions, offering the possibility to customize company information and logos in order to automatically create test reports complying with standards.



- Comparator resetting function, making reference to a sample plate and simultaneous acquiring of 6 measurements with just one click. Possibility to create, display and print charts of all measurements made.
- Attractive and intuitive graphics to make usage easy.
- Window with 6 virtual displays for reading comparator information in real time.
- Automatic progressive numbering of tests, which can be customized with alphanumeric characters.
- Filing and cataloguing of tests performed.

DataDimension Models for tiles greater than 60 x 60cm

Model DSQ-650: For tiles sizes 10 x 10cm up to 65 x 65cm
Model DSQ-950: For tiles sizes 10 x 10cm up to 95 x 95cm
Model DSQ-1300: For tiles sizes 10 x 10cm up to 130 x 130cm
Model DSQ-1600: For tiles sizes 10 x 10cm up to 160 x 160cm
Model DSQ-1800: For tiles sizes 10 x 10cm up to 180 x 180cm

Overall dimensions: 105 x 70 x 190cm, weight 195kg
Overall dimensions: 136 x 80 x 202cm, weight 250kg
Overall dimensions: 172 x 80 x 202cm, weight 380kg
Overall dimensions: 206 x 80 x 202cm, weight 410kg
Overall dimensions: 226 x 80 x 240cm, weight 620kg

Portable Gauges: Flatness (see picture right) or Diagonal linearity (see pictures below)

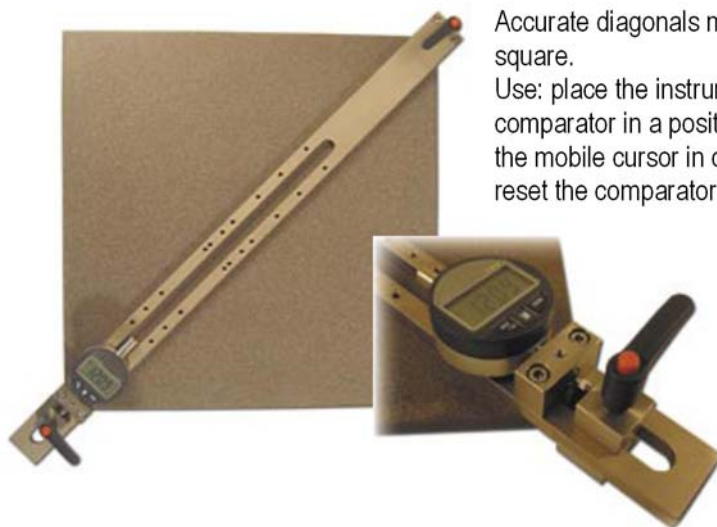
These gauges are suitable for the fast determination of flatness or diagonal differences of ceramic tiles, measured across the diagonal dimension. It comprises of a steel bar with two calibrated feet which can be set at varying distances apart, a spherical bubble and a 60mm diameter dial gauge, marked in 1/100mm increments. Each unit is supplied with a ground calibration plate, all in a wooden box

P/96-A, for tiles ranging from 15x15cm to 30x30cm

P/96-B, for tiles ranging from 15x15cm to 40x40cm,

P/96-C, for tiles ranging from 15x15cm to 50x50cm

P/96-D, for tiles ranging from 15x15cm to 60x60cm



Accurate diagonals mean that the tile is perfectly square.

Use: place the instrument on the tile diagonal, with the comparator in a position suiting the size examined. Put the mobile cursor in contact with the tile corner and reset the comparator. Repeat this operation on the other

diagonal but do not reset the comparator; instead take note of any differences.

Model D/01-A: for tiles 15x15cm, 15x20cm, 15x30cm, 20x20cm, 20x25cm, 25x25cm and 30x30cm.

Model D/01-B: for tiles as above and 33x33cm, 30x40cm and 40x40cm.

Model D/01-C: for tiles as above and 45x45cm and 50x50cm.

Model D/01-D: for tiles as above and 60x60cm

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