

CE marking

Norm CPD (Costruction Production Directive)

What it is

The European directive 89/106/CE defines the new obligations and responsibilities for Producers of all building products establishing new directives for these products.

In practice

The doors and gates for commercial, industrial and garage purposes, not fire resistant or with control of smoke propagation, both manual or motorised, have a norm of reference. It is **UNI EN 13241-1**.

The conformity to the European directives dictated by these norms will enable Producers to **legally** introduce in the market of the European Union these building components.

The CE marking, that must accompany the products, testimonies that there is compliance with the legal obligations deriving from the European legislation.

Deadlines - Compulsory marking: from 1st May 2005

From 1st May 2005 commercial, industrial and garage doors and gates that are not marked CE can not be put on the market.

What happens to those in default? The non correct use of the CE marking leads to the offences of **fraud in commerce** and **unfair competition**. In case of accident the judge will **prosecute** the Producer.

Requirements

The norm foresees that the producer tests the product and checks its production to assure that what has been tested on the prototype is maintained in the current production.

Tests are carried out with reference to water resistance, release of dangerous substances, resistance to wind load, thermal transmittance, air permeability, safe opening, geometry of glass parts, mechanical resistance and stability, functioning forces and durability.

The tests are divided in **compulsory** and **optional**. The **compulsory** tests **depend on the producer and the notified Laboratories CPD**. The **optional** tests depend on the **notified Laboratories CPD**

The **CPD body** is the structure that attests and evaluates the conformity certifying and making the laboratory tests. After the publication of the DM n. 156 of the 9th May 2003, that took place on the 3rd July 2003, that has defined the "Criteria and mode to obtain the qualification by the organisation of certification, inspection and test in the sector of building products", also the Italian state has began the activity of notification of the organisations.

Compulsory requirements that depend on the producer:

1. Mechanical resistance - EN 12604, EN 12605

Doors with vertical opening must have devices able to prevent drop.

2. Geometry of glass parts - EN 12604, EN12605

Glasses must not come out of their seat and if they were to break, they must not make sharp angles or cutting splinters.

3. Production check in the factory - EN 13241

Periodic test of "sensible" elements tested on the initial prototype, like the presence and functionality of the safety devices and of the seals.



4. EMC electromagnetic compatibility - ANNEXED ZC of the EN 13241

All products must respect certain limits of electromagnetic emission and a certain grade of electromagnetic immunity, so that the contemporary use at short distance of several products is not problematic (reciprocal bad functioning, interferences, etc.). It is an arrangement already foreseen combined with the Machine Directive.

5. Release of dangerous substances- EN 13241

The materials used for the product must not release dangerous substances.

To read in depth about this topic we invite you to refer to the CPD list available at page:

http://ec.europa.eu/enterprise/sectors/construction/files/guidance-papers/gp-h_en.pdf



Compulsory requirements that depend on the notified laboratory:

6. Safe opening - EN 12604, EN 12605

There must be the possibility to stop the door at any position. There must be the possibility to control the opening and closing.

Pinch, cut and shear off: all parts that close again during opening or closing of the door must be protected. For example, on the door perimeter there must be a space between leaf and frame of 25 mm.

Slip off a pulley: the door in opening phase must stop automatically in the final position and the motor must switch off as soon as the command stop is given.

7. Functioning forces - EN 12453, EN12445

When closing, if the door finds an obstacle, it must not exert a force higher than 400 N.

8. Safety devices - EN 12453, EN 12445

Trap: in case of a power cut or motor breaking there must be the possibility of exit.

Pedestrian door: the motorised door must not function if the pedestrian door is open.

Lifting: doors that open vertically must not be able to lift a person.

Shear off, hook and impact: the forces must be kept under the maximum acceptable level. The impact points generated by the door in motion must be removed or protected.

9. Resistance to wind load - EN 12424

When loaded 450 Pa (Class 2) the door must not present permanent deformations that can influence the functioning or the level of safety.



Optional requirements that depend on the notified laboratory:

- 10. Water resistance - EN 12489, EN 12425
- 11. Thermal transmittance - EN 12428
- 12. Air permeability - EN 12427
- 13. Durability (compulsory if we do 10 and 11) - EN 12604
- 14. Noise reduction - EN ISO 717-1, EN ISO140-3
- 15. Burglar resistance - EN 1627



Silvelox tests

The choice criteria of the sample to test **depend on the producer**.

The criteria

Here is an example for the selection of the samples used by us for the test of our garage and double leaf doors:

- **Strength test:** done with the heaviest panel/leaf in the building table
- **Safety device test:** done with the heaviest panel/leaf in the building table
- **Resistance to wind load test:** the maximum dimension of each single model with same structural components with the presence of pedestrian door.

Tests

Here is a list of the tests carried out on our products

- Durability
 - The samples do a **cyclic test** without carrying out special maintenance/repair/substitution, that are not mentioned in the Use and Maintenance Manual
 - The number of cycles tested must be inserted on the Declaration of Conformity of the door and on the label
- Safe open
 - The test includes a series of geometric tests with suitable template (tool made by a series of elements calibrated and used for the dimensional check and the test of the position of the different components of the structure)
 - At the end of the test a statement is made
- Impact forces
- Safety devices
- Wind resistance
- Thermal transmittance

SILVELOX

le porte per eccellenza

How to recognise a certified door?

A certified door has a relevant label and is always accompanied by a Declaration of conformity.

On the **label** the brand CE is followed by the identification number of the body that intervenes during the phase of control of production

CE	SILVELOX S.p.A. <small>made in ITALY</small>	
	I-38050 Castelnuovo (Trento) - Viale Venezia, 37 Tel. +39 0461 755 755 - Fax +39 0461 752 466 www.silvelox.com - customercare@silvelox.com	
89/106/CE 98/37/CE 89/336/CE 73/23/CE	Type: <input type="text"/>	Year: <input type="text"/>
EN 13241-1	Serial-N°: <input type="text"/>	
05	Motorised garage door	
Water resistance		Class 0
Wind load resistance		Class 4
Thermal transmittance		U=1.4 W/m²K
Air permeability		Class 1
Durability		20000 Cycles
<small>MD 75.3.2 - 2</small>		<small>Sistema Qualità SILVELOX</small>
		<small>Rev. 5</small>

The brand CE is accompanied by the name or the specific brand of the producer, by the last two numbers of the year of affixing of the brand CE, in the appropriated cases by the number of certificate CE of conformity and, in case, by information that enable to identify the product characteristics with the technical specifications.

The CE Declaration of conformity contains the following:

- Name and address of the producer or of his mandatary established in the Community
- Product description (type, identification, use, etc.)
- The dispositions to which the product responds
- The conditions of use of the product
- The name and the address of the acknowledged institution
- The name and the qualification of the person authorised to sign the document on behalf of the producer or of his mandatary (optional).