



A GUIDANCE NOTE FROM FIRE PROTECTION LIMITED

CE Marking of fire resistant ducting

From the 1st July 2013, **CE** marking of fire resistant ducting will become mandatory.

Under European directive 93/68/EC, all fire protection products that are approved under an EN Product Standard must comply with this requirement.

With passive fire resistant duct systems, a **CE** marking label must be attached to each duct section and also any tested in-duct equipment.

The EN Product Standards relevant to fire resistant ducting are as follows;

Smoke Control ducting BS EN 12010-7

&

Fire Resistant ducting BS EN 15871



EXPLANATION OF CLASSIFICATION SYMBOLS

Defined in BS EN 13501 Part 3 (ventilation & kitchen extract ducts) & BS EN 13501 Part 4 (smoke extract ducts)

The list of symbols defining tests in BS EN 1366 Parts 1, 8 & 9 and tests in BS EN 15882 Parts 1 & 5 are common other than those items marked * which are exclusive to BS EN 13501 Part 4.

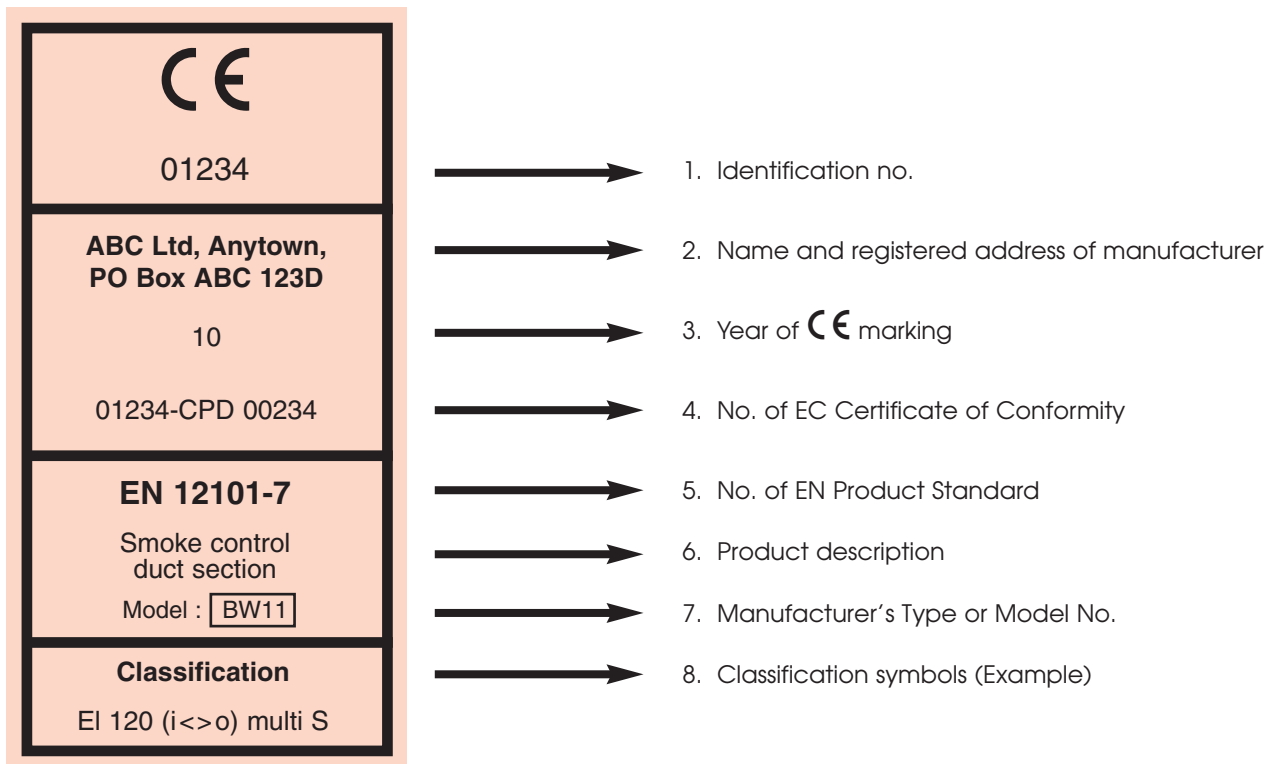
E	=	Integrity
I	=	Insulation
S	=	Smoke leakage
t	=	Time period
i	=	Fire inside test (Type B or C)
o	=	Fire outside test (Type A)
i > o	=	Tested for fire inside duct
o < i	=	Tested for fire outside duct
i <> o	=	Tested for both respectively
Multi	=	Multi compartment
V_e	=	Vertical duct
h_o	=	Horizontal duct
* Single	=	single compartment
* E₃₀₀	=	300°C smoke temp single compartment only
* E₆₀₀	=	600°C smoke temp single compartment only
* 500, 1000 or 1500	=	Pascals for smoke duct only, indicates negative pressure tested and allows 500 Pascals positive pressure.

EXAP (Xmm xYmm) = Is the duct dimensions which were tested and represents the maximum size duct which is approved for manufacture and installation.

Typical classification in accordance to BS EN 13501-3 or 4

E	I	1	2	0	(i	<->	o)	h _o	V _e	S
integrity	insulation	time in minutes				tested for fire inside duct		tested for fire outside duct		tested for horizontal duct	tested for vertical duct	tested for smoke leakage

EXAMPLE OF CE MARKING LABEL INFORMATION



The CE marking label must be fixed on each duct section for fire resistant and smoke control categories and accompanying documentation, e.g. delivery note.

The information that must be printed on the label is as follows;

1. The number of the notified product certification body (NANDO), found at <http://ec.europa.e/enterprises/newapproval/nando/>
2. Name and registered address of the manufacturer.
3. The last two digits of the year in which the marking is fixed to the product.
4. The number of the EC Certificate of Conformity (see example)
5. Reference to either EN Product Standard BS EN 15871 or BS EN 12101-7.
6. Product description – for example, Ventilation, Pressurisation, Kitchen Extract, or Smoke Control as defined in 5. above.
7. Manufacturers Type or Model No.
8. The classification symbols confirm the tests that have been successfully carried out and classified to any, or all of the following test standards; BS EN 1366 Parts 1, (ventilation & kitchen extract ducts); Part 8 (multi fire compartment smoke extract ducts); Part 9 (single compartment smoke extract ducts), plus BS EN 15882 Parts 1 (Extended Field of Application for ventilation & kitchen extract ducts and Part 5 (Extended Field of Application for Smoke Control duct).



Intertek



Quality Systems Certificate No. 418
Assessed to ISO 9001:2002



Certificate No 277a
Approved to ISO 6944



COATED DUCTS
FOR USE IN
FIRE RESISTIVE
DUCT ASSEMBLIES
SEE UL BUILDING
MATERIALS DIRECTORY
ISL 6962

EXAMPLE

CERTIFICATE OF CONFORMITY THAT MUST BE ISSUED FOR EACH DUCT PRODUCT CATEGORY, CONFIRMING PERFORMANCE OF FIRE RESISTANT DUCT SYSTEM

NOTIFIED BODY ISSUING CERTIFICATE

EC CERTIFICATE OF CONFORMITY

Number: XXX

In compliance with Directive XXX of the Council of European Communities of XXX on the approximation of laws, regulations and administrative provisions of the member States relating to construction products (Construction Products Directive—CPD, amended by the Directive XXX of the Council of European Communities of XXX, it is confirmed that the following products are subject to factory production control procedures and are submitted by the manufacturer to further testing of samples taken at the factory in accordance with a prescribed test plan. The stated Notified Certification Body has performed the initial type testing for the relevant characteristics of the product, has conducted the initial inspection of the factory and the factory production control, and is responsible for the continuous surveillance, assessment and approval of the factory production control.

Construction product: PRODUCT
Placed on the market by: MANUFACTURER
Company:
Address:
Product classification: XXX
Intended use: TYPE OF DUCT
Particular conditions applicable: INTENDED APPLICATION

This document certifies that all the provisions concerning the attestation of conformity and product performance described in XXX of the product standard

PRODUCT STD No

were applied and that the product fulfils all the prescribed requirements.

Notified certification body XXX EC reference no XXX



SIGNATURE OF NOTIFIED BODY
INSPECTOR

Manager XXX Certification Ltd

References:

Mechanical test evidence: XXX Fire test evidence: XXX
Factory references: XXX Classification report: XXX

Please Note Production of European standards is a continually evolving process. At the time of this leaflet's publication, a few of the EN fire resistant duct standards are still in final draft form. It is anticipated however that all remaining standards will be published prior to 1st July 2013. It should also be noted that all published EN standards are reviewed at regular intervals, usually 10 years. To date, none of the reviewed test standards have been changed sufficiently to necessitate retesting.

FOR FURTHER INFORMATION PLEASE REFER TO OUR TECHNICAL AND APPLICATIONS MANUALS



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