Quick guide for requesting CE marking on doors, windows and curtain walls

Introduction

The intention of this guideline is to assist stakeholders requesting appropriately CE marking on doors, windows and curtain walls according to harmonised standards (hEN's) under the (CPR) - (EU) 305/2011.

Harmonised European standards hEN's

Harmonised European standards provide methods and criteria for assessing the performance of construction products in relation to their Essential characteristics.

They provide information on the scope; normative references; terms and definitions; test performance & classification requirements; handling, installation, maintenance & care; assessment and sampling methods; attestation & evaluation of conformity; and, CE marking and labelling.

Apart from the mandatory performance 'threshold values' of Member States Regulatory requirements, which have to be declared, Member States stakeholders may require manufacturers to declare the performance of additional essential characteristics which are defined in hENs, to meet specific needs.

hEN 14351-1 is applicable for external pedestrian doorsets and windows for domestic & commercial locations, and hEN 13830 for curtain walls.

Essential characteristics

Each hEN identifies the essential characteristics of the products they relate to. These include the health and safety of persons involved throughout the life cycle of the products and, subject to normal operation & maintenance, the products must demonstrate suitable performance against these essential characteristics throughout their economically reasonable working life.

Manufacturer's tasks

Manufacturers may decide to place a product on the market:

- designed and tested by themselves at a Notified Body (NB) [Notified in accordance with the CPR]
- a product designed and tested by another manufacturer having given written authorisation to use their test data (sharing)
- by assembling a product which is tested by a system provider having given written authorisation to use their test data (cascading)

In all cases manufacturer's Factory Production Control (FPC) system, must provide evidence that the marketed product fully conform with the declared performances.

Declaration of Performance (DoP)

An important CPR requirement for the manufacturer is to prepare a document called a Declaration of Performance and to supply it to the customer in paper or electronic means. By drawing up a DoP the manufacturer takes responsibility for the declared performances. In the absence of objective evidence to the contrary, Member States shall presume that the information provided is both accurate and reliable.

The manufacturer has to declare performance against all essential characteristics including those mandated as aforementioned, Manufacturers are permitted to declare a lower performance or no performance determined (NPD) for those characteristics not mandated.

The manufacturer may declare a lower performance than the one reached during testing or NPD, but they must declare performance for at least one essential characteristic.

The DoP must be retained by the manufacturer for a period of 10 years after the construction product is placed on the market.

CE marking

By affixing, or having affixed, the CE marking to the product, packaging or accompanying documentation the manufacturer confirms that they take responsibility for the conformity of the construction product with the declared performances as well as with all the applicable requirements defined in the CPR and all applicable regulations.

The CE marking cannot be affixed if a DoP has not been drawn up.

CE marking shall accompany the product placed on the market.

Essential characteristics with NPD on the DoP can be omitted from the CE marking.

For any construction product covered by a harmonised standard, CE marking is mandatory and can be the only marking which attests conformity of the construction product with the declared performance in relation to the essential characteristics, covered by that harmonised standard.

DoP & CE marking

Based on the required content and manufacturer's / customers preference, the DoP(s) and CE mark(s) can either be produced as separate documents or combined (as the example shows) in a single document for each hEN. In this case the document will need to fulfil the obligations of both documents and be offered for both purposes. Only one DoP and CE mark document is required for multiple products of the same type.

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Example

The example below shows a way a manufacturer can meet DoP & CE marking requirements. The constituent products are shown below in different colours. Manufacturers can collate the DoP and CE markings for the openable parts (door and windows) which fall under hEN 14351-1 (red colour) within the same document (top left) and the one for the curtain walling in a separate one (bottom right) falling under hEN 13830 (black colour).

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Declaration of Performance

Project code: 001/2012
Metal Window Manufacturer ltd / PO Box 21, B-1050, Brussels

DoP number / Unique identification code:	Products list: SOEGD001		DDHTTGW001		DDHTTPW002			
Intendent use:	Exterior door		Window		Window			
Essential Characteristics	Performance	Notified Body	Performance	Notified Body	Performance	Notified Body	AVCP	hEN
Watertightness:							System 3	EN 14351-1:2006+A1:2010
- Shielded (A)			9A	[2]				
- Test pressure (Pa)			600					
Watertightness:								
- Non-Shielded (B)	5B	[4]			7B	[4]		
- Test pressure (Pa)	200				300			
Dangerous substances	-		-		-			
Resistance to wind load:								
-Test pressure P1	5	[2]	5	[3]	E2400	[1]		
- Frame deflection	A		B		C			
Impact resistance:								
- Drop height (mm)	700		NPD		NPD			
Load bearing capacity of safety devices	NPD		NPD		NPD			
Height (mm)	2200	-						
Ability to release	NPD							
Operating forces	NPD		NPD		NPD			
Acoustic performance (dB)	NPD		37	-	NPD			
Thermal transmittance (W/m^2K)	1,4	-	1,1	-	1	-		
Radiation properties:								
- Solar factor (g)	0,58	-	0,45	-	0,58	-		
- Light transmittance (τ_v)	0,45		0,40		0,45			
Air permeability:	4		4		4			
- Max test pressure (Pa)	600	[2]	600	[1]	600	[1]		
- Reference air permeability at 100Pa (m^3/hm^2) or (m^3/hm)	3 or 0,75		3 or 0,75		3 or 0,75			

[1] Notified Body A (9999) • [2] Notified Body B (8888) • [3] Notified Body C (7777) • [4] Notified Body D (6666)

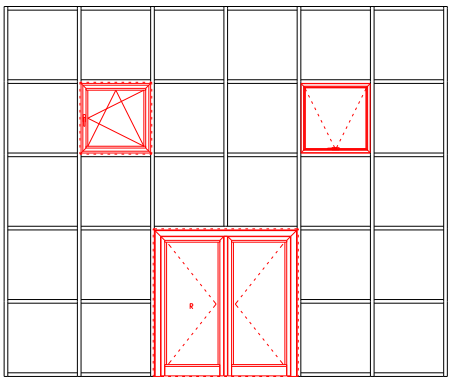
System 3: Notified Bodies performed the determination of the product-type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation, tabulated values or descriptive documentation of the product; and issuing of the test/calculation reports under System 3 documentation of the product; initial inspection of the control and continuous surveillance; under System 1 and issued certificate of conformity of performance

The performance of the products identified with the above unique identification codes are in conformity with the relevant declared performances.

This declaration of performance is issued under the sole responsibility of Metal Window Manufacturer ltd / PO Box 21, B-1050, Brussels

Signed for and on behalf of the manufacturer by:

Name and function	Place and date of issue	



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Declaration of Performance

Metal Window Manufacturer ltd / PO Box 21, B-1050, Brussels

Essential Characteristics	No CWSH150PP Curtain Walling: Performance	Notified Body	AVCP	hEN
Reaction to fire of profile	E	[1]	3	EN 13830:2003
Fire resistance	NPD	-	3	
Fire propagation	NPD	-		
Watertightness	R6	[1]		
Resistance to own dead load: [kN]	NPD	-		
Wind load resistance: [kN/m²]	9,1	[2]		
Impact resistance	NPD	-		
Thermal shock resistance	NPD	-		
Resistance to horizontal loads: [kN at m sill height]	NPD	-		
Air permeability	A4	[3]		
Thermal transmittance U [W/(m²K)]	1,6	-		
Airborne sound insulation [dB]	NPD	-		

[1] Notified Body A (9999) · **[2]** Notified Body B (8888) · **[3]** Notified Body C (7777)

System 3: Notified Bodies performed the determination of the product-type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation, tabulated values or descriptive documentation of the product; and issuing of the test/calculation reports under System 3. The performance of the products identified with the above unique identification codes are in conformity with the relevant declared performances. This declaration of performance is issued under the sole responsibility of Metal Window Manufacturer ltd / PO Box 21, B-1050, Brussels Signed for and on behalf of the manufacturer by:

Name and function	Place and date of issue	Signature

hEN 13830:2003: 'Curtain walling - Product standard'
hEN 14351-1:2006+A1:2010: 'Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics'

Note 1: The document has an informative role and represents the state of knowledge at the time of publication. In case additional information is required reference should be made to the Regulation (CPR) number EU 305/2011 of the European Parliament and the Council of 9th March 2011. Download the regulation from the link:
(http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:088:0005:0043:EN:PDF)
Note 2: All information are informative. Window, door and Curtain Walling manufacturers are able to follow the procedure they consider as the most appropriate to fulfil the requirements of this European regulation.
Note 3: Further guidance for this aspect can be downloaded from the link:
(http://www.alueurope.eu/wp-content/uploads/2012/12/CPR_guideline_Dec_2012_ver-1.pdf)
Note 4: This document is **NOT** for Manufacturers
(Guidance for manufacturers is available @ http://www.faecf.org → Publications → Guidance Papers)
Contact email addresses:
vatavalis@eaa.be / technicalsecretariat@faecf.org