



Preparation of Harmonized Standards

CPR

2018-07-12

Preparation of construction products harmonized ENs



→ Main elements

- Construction Products Regulation – Mandates
- Drafting the harmonized European standard (hEN)
 - HAS consultant assessment
- European Commission assessment of hEN
- Standard Citation in the OJEU

NLF/New Approach: Basic Principles



New Legal Framework / New approach

- Essential requirements (ex: health and safety)
- Desired outcome (not saying how)
- Transposed in Member States

Reference to standards

- ESOs develop and approve ENs
- Technical requirements (link to ERs)
- Give presumption of conformity

Construction Products Regulation: Basic Principles



Construction Products Regulation

- Basic Work Requirements – applicable to works
- Directly applicable in Member States
- Requirements for products translated into mandates
- Member States shall regulate construction works in line with essential characteristics of hENs (if regulating)

Reference to standards

- ESOs develop and approve ENs
- Methods for assessing the performance of the construction products relation to essential characteristics → link mandate
- Give presumption of conformity with declared performances

Mandates/Standardization Requests

- Preparations started in the 1990's
- Mandates prepared in the context of the CPD/CPR
- Covering construction products likely to be subject to technical barriers to trade
- Mandates issued in the framework of CPD are considered as being issued under the CPR

Content of Mandates / Standardization Requests

- Chapter I: Grounds. Legal basis of the document
- Chapter II: Execution of the Mandate
 - work programme hENs and supporting standards
 - endorsement by EC
 - development of standards
 - acceptance by EC
- Chapter III. Harmonized standards. Content

Content of Mandates / Standardization Requests



- Annex I: Products and materials they are made of
- Annex II: Product characteristics to be taken into account for products and intended uses
- Annex III: Attestation of conformity systems according to EC Decisions (AVCP under CPR)
- Annex IV: Dealing with dangerous substances on which national or Euro-wide bans or restrictions are known

Example of Annex II: M/443

Characteristics to be covered by the harmonised standards will be:

E R	PERFORMANCE CHARACTERISTICS	DURABILITY
1		YES (Against, UV radiation, corrosion, temperature, ..., as relevant)
2	Reaction to fire Resistance to fire	
3	Release of dangerous substances*	
4		
5		
6		

* in particular, those dangerous substances defined in Council Directive 76/769/EEC, as amended.



Answer to mandates

- Each individual TC prepares answer including:
 - Mandated product families that the standard addresses
 - Intended uses addressed by the standard
 - Essential characteristics included (directly or using proxys) → **one assessement method in principle**
- List of ENs to be developed as harmonized standards

Example of answer to mandate



Answer to the Mandate / Work Programme of the Standardization Request



CCMC Reference: 0001
Revision: 00

CCMC reception date: xxxx/xx/xx
Consultant's acceptance letter date: xxxx/xx/xx
EC reception date: xxxx/xx/xx

(to be filled in by CCMC)

Mandate: M 121 Internal and external wall and ceiling finishes

TC: CEN/TC 175 Round and sawn timber

Previous documents

Document	Reference	Date	EC acceptance
Original answer to the mandate	CEN letter	2000-09-19	EC letter E HCS/siD 9551
Harmonised standard	EN 14915	2006-11-01	OJEU Citation
Harmonised standard revised	EN 14915	2013-12	OJEU Citation

EN reference (if available): EN 14915						
WI: 00175161				Foreseen DAV: 2017-03-05		
Title: Solid wood panelling and cladding – Characteristics, evaluation of conformity and marking						
Scope: This European Standard defines and specifies the relevant characteristics and the appropriate test methods to determine these characteristics for solid wood products to be used as panelling and cladding (including siding) for : - wall and ceiling panelling for internal use, - wall and ceiling cladding for external uses.						
It provides for the evaluation of conformity and the requirements for marking these products. This European Standard does not cover panels intended for use as stiffening elements. This European Standard does not cover suspended ceiling in wood panelling and cladding. This European Standard does not cover the processes for treatment, surface coating or modification. This European Standard does not cover products which are produced from laminated layer section. This European Standard covers treated, untreated and surface coated products, including those made of thermally or chemically modified wood, as well as finger jointed and edge glued products.						
NOTE Prescription for surface coating and treatment can be found in documents valid in place of use. This European Standard covers products in compliance with EN 14519, EN 15146 and EN 14951, and other solid timber products manufactured for use as panelling and cladding.						
Intended use: For use outside and/or inside buildings						
Family of products: Solid wood panelling and cladding						
Sub-family of products:						
BRCW	Type	Essential Characteristics (EC) / Proxies (PR)	Original mandated characteristics	AVCP	CWT	Classification / Threshold
2	EC	Reaction to fire	Reaction to fire	...	...	...
3	EC	Release of formaldehyde	Release of formaldehyde	...	...	...
3	EC	Content of pentachlorophenol	Release of other dangerous substances	...	...	...
3	EC	Release of other dangerous substances	Release of other dangerous substances	...	...	...
2	EC	Water vapour permeability	Water permeability	...	...	...
5	EC	Sound absorption	Sound absorption	...	...	...
	PR	Proxy 1				
	PR	Proxy 2				
6	EC	Thermal resistance express as thermal conductivity	Thermal resistance	...	...	...
2	EC	Resistance to fixings	Resistance to fixings	...	...	...
	EC	Durability (biological risks)	Durability	...	...	...
Documents requesting the introduction of new classes and thresholds						
Document			Reference		Date	
-			-		-	

Justifications for the proposed track changes (including the technical justifications for the inclusion of new essential/proxy characteristics)

Procedure for acceptance of answer to mandate



- TC prepares answer to mandate
- CCMC asks CPR Consultants (if available) for formal endorsement letter
- CCMC sends answer to EC
- EC consults Member States (through SCC)
- EC accepts/rejects the answer to the mandate or makes comments
- ENs can be prepared and cited in OJEU

Drafting construction products harmonized ENs



→ Where to start?

- Draft **CEN Guide** – Rules for the drafting and presentation of candidate harmonized product standards for construction products
- Guidance on AVCP (TF N 548 Rev1)
- Guidance document on Annex ZA (TF N 687 Rev1)
- EC Guidelines for hENs under the CPR
- HAS assessment report – check list

Structure for hEN

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions, symbols, units and abbreviated terms

4 Products characteristics

5 Testing, assessment and sampling methods

6 Assessment and verification of constancy of performance

7 Product Classification and designation

8 Marking, labelling and packaging

9 to n Other (if needed)

Annex(es) (normative and/or informative)

Annex ZA (exclusively for Regulation (EU) 305/2011)

Bibliography

Drafting construction products harmonized ENs



→ Foreword

- Mention who prepared it
- Indicate which EN supersedes
- Main changes (e.g. new subclasses AVCP, Annex ZA)
- List of relevant standards. Example:
 - Part 1: Definitions and description
 - Part 2: Product Standard
- Information about annex ZA

Drafting construction products harmonized ENs



→ Scope (Clause 1)

- In accordance with mandate/TC answer to mandate/standardization request
- Specify which products are covered
- Intended use
- Should not exclude products legally placed on the EU market (e.g. limitations of scope)

→ Terms and definitions (Clause 3)

- 'Class', 'classification', 'level' shall be used in hENs in the same meaning as the one in the CPR

Drafting construction products harmonized ENs



→ Product characteristics (Clause 4)

- Definition of the relevant product characteristics and how to express the performance
- Essential characteristics will be included in Annex ZA
- Reference to assessment method

Drafting construction products harmonized ENs



→ AVCP (Clause 6)

- Should follow guidance document TF N 548 rev1
- Dealing with product-type determination
- Factory production control by the manufacturer, including product assessment and other tasks

Drafting construction products harmonized ENs



→ Annex ZA

- Should follow Annex ZA guidance document (TF N 687 Rev1)
- Shall contain all essential characteristics included in the answer to mandate

Annex ZA: table ZA.1

Table ZA.1 — Relevant clauses for product [A-n] and intended use [1-n]

Product: [insert the name of product A-n as given in the accepted answer to the standardization request]			
Intended use [insert the intended use 1-n as given in the accepted answer to the standardization request]			
Essential Characteristics [1]	Clauses of this European Standard related to essential characteristics [2]	Classes and/or threshold levels [3]	Notes [4]
[name of essential characteristic 1 as given in the accepted answer to the standardization request]			
[name of essential characteristic 2 as given in the accepted answer to the standardization request]			
[name of essential characteristic n as given in the accepted answer to the standardization request]			
[durability of essential characteristic 1]			
[durability of essential characteristic n]			

[NOTE 1: Each of the essential characteristics for the product and the intended use, should be listed here, including the assessment of durability as foreseen in the accepted answer to the standardization request.

NOTE 2: The provisions under Clause “Product Characteristics” included in the standard.

NOTE 3: Threshold levels and classes of performance foreseen in the relevant clauses of the standard

NOTE 4: In this column the way of expressing the characteristic should be mentioned (i.e. units, description, thresholds, levels, classes). This column can also indicate the test/assessment/calculation method.]

Annex ZA: ZA.2



ZA.2 System of Assessment and Verification of Constancy of Performance (AVCP)

The AVCP system(s) of [\[insert here the name of the construction products as given in the accepted answer to the standardization request\]](#) indicated in Table(s) ZA.1.1 to ZA.1.n, can be found in the EC legal act(s) adopted by the EC: [\[insert here the number of the EC legal act\(s\), adopted by the EC\]](#) [\[\(insert here the No. of OJEU\)\]](#).

Micro-enterprises are allowed to treat products under AVCP system 3 covered by this standard in accordance with AVCP system 4, applying this simplified procedure with its conditions, as foreseen in Article 37 of Regulation (EU) No.305/2011.

Example: table ZA.3

Table ZA.3.1 — Assignment of AVCP tasks for [insert here the name of the construction products as given in the accepted answer to the standardization request] under system 1+ [5]

Tasks		Content of the task [6]	AVCP clauses to apply [7]
Tasks for the manufacturer	Factory production control (FPC)	Parameters related to [essential characteristics] of Table ZA.1 relevant for the intended use which are declared	
	Further testing of samples taken at the manufacturing plant by the manufacturer in accordance with the prescribed test plan.	[Essential characteristics] of Table ZA.1 relevant for the intended use which are declared	
Tasks for the notified product certification body	An assessment of the performance of the construction product carried out on the basis of testing (including sampling), calculation, tabulated values or descriptive documentation of the product;	[Essential characteristics of Table ZA.1 relevant for the intended use which are declared and as indicated in Annex III of the standardization request]	
	Initial inspection of the manufacturing plant and of FPC	Parameters related to essential characteristics of Table ZA.1, relevant for the intended use which are declared, namely [those indicated in Annex III of the standardization request]. Documentation of the FPC.	
	Continuing surveillance, assessment and evaluation of FPC	Parameters related to essential characteristics of Table ZA.1, relevant for the intended use which are declared, namely [those indicated in Annex III of the standardization request] Documentation of the FPC	
	Audit-testing of samples taken by the notified product certification body at the manufacturing plant or at the manufacturer's storage facilities.	[Essential characteristics of Table ZA.1 relevant for the intended use which are declared], namely [those indicated in Annex III of the standardization request]	

Aspects to consider during drafting



- New classes or thresholds
- Pass/fail approach
- Reference to national requirements
- More than one method for essential characteristics
- Issues with scope (in particular limitations and lack of clarity)
- Additional requirements for manufacturers'
- Wrong wording / terminology
- Additional characteristics

Requesting classes and thresholds

- New classes/thresholds template

Request for the introduction of new Class or Threshold	
CCMC Reference: xxxx	CCMC reception date: xxxx/xx/xx
Revision: xx	EC reception date: xxxx/xx/xx
(to be filled in by CCMC)	

Title of the new harmonized EN:

WI:

TC:

Title of the existing harmonized EN (if existing):

WI:

TC:

1) [Essential characteristic]			
b) Proposed changes			
Characteristic / Requirement [unit]	Proposed thresholds	Existing thresholds [value and unit]	Clause (and WI if in another standard)
-	-	-	-
Characteristic / Requirement [unit]	Proposed classes [range]	Existing classes [range and unit]	Clause (and WI if in another standard)
-	-	-	-

1) [Essential characteristic]	
a) General	
Product:	
Intended use:	
Essential Characteristic and or proxy:	
Reasons for the request	Justification needed
<input type="checkbox"/> Technical update/ state of the art	See Justification
<input type="checkbox"/> Existing in relevant technical document	[Identification of the document (e.g. EN) / Citation of EN in OJEU]
<input type="checkbox"/> Included in regulation	[Reference of the regulation / TRIS reference]
<input type="checkbox"/> Included in answer to mandate	[Reference of the TC document]

Dealing with additional characteristics



- Additional characteristics
- If highlighted by the HAS consultant and/or EC
- Include a list of non-harmonized elements (with the CPR) in the annex ZA

Approach on Dangerous Substances



1 - Delete the previously used model clauses from hENs

2 – Follow the steps for the four possible situations below:

Situation 1: A European assessment method exists

The EN shall make reference to it in its main part as described below. The appropriate method (TS and possibly future ENs) shall be selected from the list. There must be a reference to the selected method in the body of the standard. The respective clause shall be identified in the Annex ZA.

EN 16516:2017 Determination of emissions into indoor air

CEN/TS 16637-2:2014 Part 2: Horizontal dynamic surface leaching test

CEN/TS 16637-3:2014 Part 3: Horizontal up-flow percolation test

Situation 2: The TC decides that no appropriate test method is available.

No dangerous substances clause should figure in the EN, even if 'dangerous substances' is currently an essential characteristic in the mandate.

Approach on Dangerous Substances



Situation 3: A new essential characteristic has been identified and included in the mandate, e.g. micro-biological growth, and no European assessment method exists, but there are one or several test methods.

Situation 4: Harmonised standards contain a specific test method for dangerous substances for a product family.

HAS consultants - construction



Giancarlo Bedotti	Construction
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NEW ASSIGNMENTS

HAS consultants – meetings requests



Section 1: Requestor details				
1. European Standard Organisation	<input type="checkbox"/> CEN	<input type="checkbox"/> CENELEC	<input type="checkbox"/> ETSI	
2. Technical Committee (TC) or Working Group (WG) represented	Technical Committee:		Working Group:	
3. Name of the person issuing the request ("requestor")	Surname:		Name:	
4. Requestor's position in the TC and/or WG	Position in TC:		Position in WG:	
Section 2: Requested HAS Consultant(s)				
HAS Consultant 1	Surname:		First Name:	
	Directive:		Mandate:	
HAS Consultant 2	Surname:		First Name:	
	Directive:		Mandate:	
HAS Consultant 3	Surname:		First Name:	
	Directive:		Mandate:	
Section 3: Meeting details				
1. Period of the full meeting (dd/mm/yy - dd/mm/yy)				
2. Location				
3. Period for which attendance is requested (dd/mm/yy - dd/mm/yy)				
4. Total number of man-days requested				
Daily meeting details	Day 1	Day 2	Day 3	Day 4
5.1 Virtual attendance (teleconference) or face-to-face				
5.2 Scope of the meeting (please see instruction below)				
a. Clarification of previous finalised assessments				
b. Clarification of on-going work-items				
c. Other communication				
5.3 TC and/ or WG involved				
5.4 Chairperson of the TC and/or WG				
5.5 Name and number of the different Work Items to be discussed (if applicable)				
5.6 Additional details (especially for "other communication")				
Instruction to complete Point 5.2: For all three situations listed (a,b,c), please indicate the work item(s) to be covered (name and number).				



GUIDE FOR REQUESTING MEETING ATTENDANCE BY HAS CONSULTANT(S)

The purpose of this document is to provide instructions on how to issue a request for meeting attendance by HAS Consultant(s), in the newly implemented HAS system. Within its project management role, EY shall manage the HAS pool of experts which also involves processing such requests for meeting attendance.

In order to avoid any uncertainties with regards to this procedure, please see below a list of aspects to consider when issuing a request.

1. Complete the xls. file "Template for requesting meeting attendance by HAS Consultant(s)" exhaustively by ensuring that every field has been completed and the information is stated clearly;
2. The request shall be issued by sending the completed xls. file to the following e-mail address: has.support@be.ey.com
3. When issuing the request, please also attach the overall meeting agenda (see point 6);
4. Every request must be issued at least four weeks (30 calendar days) before the meeting for which attendance is requested;
5. Only the Technical Committees' Secretariats are able to issue such request in order to ensure consistent communication;
6. In the case that:
 - a. The meeting aims at addressing specific work items, these work items (name and number) must be clearly indicated in the xls. file.
 - b. The meeting does not relate to a specific work item but rather to general communication, the need for HAS attendance must be justified.
7. In both cases (5.a and 5.b), the TC Secretariat shall provide via e-mail (together with the xls. file) the daily agenda of the meeting.
8. Although some meetings might have to be attended physically in order to facilitate discussion and maximize efficiency, we do encourage remote participation (teleconferencing, Go-To meeting, etc.) by the HAS Consultants. As such, the TC Secretariat shall also provide information on possible remote participation.

Should you have any questions, please do not hesitate to contact us on has.support@be.ey.com

We are looking forward to working with you.

Sincerely,

The EY Team



Thank you for your attention!

Questions?

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