CPR ACQUIS PROCESS

SUB-GROUP ON PRODUCT AREA 20:

STRUCTURAL METALLIC PRODUCT AND ANCILLAIRES

WORK PROGRAMME

FOR THE DEFINITION OF THE HIGH LEVEL STRUCTURE OF FUTURE HARMONISED TECHNICAL SPECIFICATIONS IN THE CONSTRUCTION PRODUCT SECTOR

Date of presentation at the Steering Group	July 2021
Date of beginning	October 2021

Executive Summary

The European Commission has set up an informal Expert Group to support the Commission in the work to prioritise, prepare and then revise the so-called "CPR Acquis", which consists of harmonised standards, other technical specifications and complementary legal acts.

The group is composed of a main forum, the "Steering Group", 36 sub-groups corresponding to the product areas identified by the CPR and up to 5 thematic sub-groups to deal with horizontal issues (e.g., fire safety, dangerous substances, environment, etc.).

The sub-group shall operate in compliance with the rules of procedure for the Commission Expert Group on the CPR Technical Acquis process and shall report to the Steering group in accordance with this work programme.

This work programme is proposed by the Commission and is approved by the Commission after consultation with the sub-group for this product area and the Steering Group.

The aim is to suggest the content of the high-level structure of harmonized technical specifications including assessment methods, essential characteristics, AVCP systems, expression of test/assessment results (inclusion of classes of performance and/or threshold levels), requirements, regulatory needs and industry needs.

The work programme might lead to additional technical specifications and substantial additions/corrections to the existing ones.

The new set of harmonised technical specifications will potentially introduce additional requirements for the appropriate functioning and performance, inherent product safety, environmental impacts and sustainability of construction products. In addition, requirements responding to the information needs of different addressees (from designers to occupants) and environmental obligation for manufacturer may be introduced.

The implementation of the work programme is measured against four milestones based on specific deliverables, and a pre-determined timeframe.

The overall timeframe to implement the work programme is established in 15 months.

In case the revision of the CPR introduces additional elements that were not foreseen when drafting this document, the work programme can be amended in order to align its outcomes with the revised CPR.

1 Introduction and context

1.1 Background

As clearly identified in the CPR Evaluation report[1], the system for creating and adopting harmonised standards under the Construction Products Regulation (CPR) is in need of a substantial overhaul.

Most of the harmonised European standards for construction products currently in use have been developed as response to mandates issued under the framework of the Construction Products Directive (CPD). Therefore, they are no longer adequate to support the development of standards under the CPR. Furthermore, following the strengthened legal scrutiny of proposed standards as a consequence of the James Elliott[2] case and despite the guidance provided by the Commission, the Technical Committees have not been able to propose standards of citable quality in the last two years.

By consequence, the Commission had to reject 134 out of 208 standards and amendments proposed by CEN under the CPR due to insufficient legal quality and, specifically, in 2019 and 2020, the rate of acceptable standards has been 0%. In addition, a revision of the CPR has been announced in the Circular Economy Action plan and in the Renovation Wave, with the view to consider the introduction of sustainability criteria to support the uptake of more sustainable construction products in construction works, criteria that would eventually need to be integrated in future mandates and harmonised standards.

Therefore, in 2021, the European Commission (EC), Internal Market, Industry, Entrepreneurship and SMEs Directorate-General, has set up a group of experts "Commission Expert Group on the CPR Technical Acquis process" in the field of the Construction Products Regulations.

A coordinating group "Steering group" and several sub-groups according to the product areas defined in the CPR or to thematic issues are to be created. Member States of the EU and of the EEA, Turkey and Switzerland have identified the priorities for reviewing the CPR Acquis based on 8 criteria. The product area "**Structural metallic products and ancillaries**" of annex IV to the CPR, subject of this work programme, is resulted as the second priority.

The detailed tasks of the subgroups on product areas are established by its Terms of reference, and cover several aspects, the most important is to suggest the content of the high-level structure of harmonized technical specifications including assessment methods, essential

[1] https://ec.europa.eu/docsroom/documents/37827

[2] http://curia.europa.eu/juris/document/document_print.jsf?docid=184891&text=&dir=&doclang=EN&part=1&occ=first&mode=lst&pageIndex=0&cid=344%E2%80%A6

characteristics, expression of test/assessment results (inclusion of classes of performance and/or threshold levels), requirements Members States regulatory needs and industry needs.

1.2 Overview of harmonised technical specifications available

Under the product area 20: Structural metallic products and ancillaries, 12 harmonised standards (hENs) have been published in the OJEU. These hENs have been developed by CEN in response to the Mandate M/120 "Structural metallic products and ancillaries" as amended by M/137 and extended by CPR 06/07/1-Rev. In addition, 28 EADs result published in the OJEU.

A detailed map of all the harmonised technical specifications available for this product area is offered in Annex 3. The map presents also a view on the standards developed by CEN but not cited in the OJEU as evaluated not eligible by the European Commission.

1.3 Overview of other acts composing the CPR Acquis in this product area

Under the product area "Structural metallic products and ancillaries", the following implementing measures (including those adopted under Directive 89/106/EEC) have been adopted by the European Commission:

1) Commission Decision 98/214/EC of 9 March 1998 implementing Article 20(2) of Council Directive 89/106/EEC on construction products (OJ L 80 on 18.3.1998)

2) Commission Decision 2001/596/EC of 8 January 2001 amending Commission Decision 98/214/EEC (OJ L209 on 2.8.2001).

Under the product area Structural metallic products and ancillaries, also the following documents are available:

- Commission Decision 2006/600/EC of 4 September 2006 implementing Article 20(2) of Council directive 89/106/EEC on double skin metal faced sandwich panels for roofs (OJ L244 on 7.9.2006);
- Commission Decision 2010/737/EU of 2 December 2010 implementing Article 20(2)(a) of Council Directive 89/106/EEC on steel sheets with polyester coating and with plastisol coating (OJ L317 on 3.12.2010);
- Commission Delegated Decision 2018/779 of 19 February 2018 implementing Article 28 and Article 60(h) of Regulation 305/2011 on metal-faced sandwich panels for structural use (OJ L131 on 29.5.2018).

- Commission Decision 1996/603/EC of 4 October 1996 establishing the list of products belonging to Classes A "No contribution to fire" provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products (OJ L 267, 19.10.1996).

2 Objectives and time frame

2.1 Objectives

As described in the terms of reference of the subgroup and in the background text above, the various subgroups shall, among others, suggest the content of the high-level structure of harmonized technical specifications including assessment methods, essential characteristics, expression of test/assessment results (inclusion of classes of performance and/or threshold levels), requirements and regulatory needs;

To fulfil its tasks, the subgroup has to proceed according to this work-programme. The work programme is elaborated in accordance with the CPR Acquis Guidance, which ensures a common and systematic approach of all subgroups. The work-programme is targeted in particular to define the high-level structures of future technical specifications that, ideally, can be quickly transformed into standardization requests or become the basis of a harmonised technical specification adopted as COM act.

The work programme will lead to additional technical specifications and substantial additions/corrections to the existing ones, including additional requirements for the appropriate functioning and performance, inherent product safety, environmental impacts and sustainability of construction products. In addition, (potentially) different information needs for different user groups have to be taken into consideration.

2.2 Milestones

The implementation of the work programme will be measured against milestones based on specific deliverables, and pre-determined time frame. The milestones are listed downwards, these will be documented, monitored and reported during the execution of the work programme.

I. Definition of the scope of the product areas;

II. Creation of technical-boards of the sub-group;

III. Prepare the content of the high-level structure of harmonized technical specifications:

a. Basic requirements for construction work and their essential characteristics, including the identification of thresholds and classes of performance;

b. Requirements ensuring the appropriate functioning and performance;

c. Safety product requirements;

d. Environmental product requirements;

e. Environmental sustainability assessment of construction products;

f. Environmental obligations of manufacturers;

g. Information requirements;

IV. Final consultation with observers and evaluation of all the deliverables.

The milestones may also include specific targets associated with stakeholder input.

2.3 Time frame

The time frame to implement the work programme is established in 15 months.

If more time is needed to complete the work programme, the Commission can allocate up to 6 additional months to the subgroup, provided that it is clarified why the WP cannot be completed in the foreseen time frame, and it is explained which actions will be undertaken by the subgroup in order to complete the WP by the extended deadline.

Each task/milestone must be achieved within the period identified in Annex 2.

The date to start the implementation of the work programme is October 2021.

3 Execution of the work programme

3.1 Introduction

The successful development of the future harmonised technical specifications for the construction product sector will face a series of key challenges. In particular:

- The uncertainty on the outcomes of the CPR revision and on the elements that the legislator will decide to include or modify. Therefore, the focus is firstly on what is most important, as highlighted in the CPR Acquis guidance by means of the colour codes. The objectives must be realistic in the context of the available timescales and resources (experts offered, good hTSs available, etc.).

- The high level of interdependency between certain product areas demands careful planning and phasing of activities to promote consistency of technical approach and the support of subgroups in specific product areas that might start their own work at a later stage.

- The high level of influence of national, regional and local authorities dealing with technical aspects related to products, conditioning "de facto" the entering into national markets of construction products.

- The expectations of all actors intervening in the construction process regarding the inclusion in harmonized standards of characteristics required by the market that are not expressly included in regulatory provisions of Member States.

- The work programme has to be broken down into specific tasks of focussed scope so that drafting can be undertaken by technical boards of experts with the highest levels of technical knowledge relevant to their work.

- The work is led by the Commission and the main contributors (employed in national administrations), nevertheless the involvement of observers acting as active experts or as experts offering written contribution (employed mostly in industry or representing other stakeholders) is of upmost importance in order to meet the necessary needs of different user groups.

The work programme presents realistic outcomes with realistic timescales, addressing the priorities and the regulatory needs of the Member States, the needs of industry and other stakeholders, and the legal and technical requirements of the normative Acquis.

3.2 Description of the approach

The execution of the work programme contains the identification of milestones and considers horizontal aspects that influence the outcomes. The main horizontal aspects that have been considered to determine the approach are:

- the involvement of industry and stakeholders, ensuring transparency all along the process;

- products/materials covered by multiple mandates originating potential overlaps;
- the availability of significant contributions of the participants;
- the respect of the time frame;

In order to ensure that the horizontal aspects are addressed, the following principles have been observed:

- consultation at the beginning and at the end of each milestone of the relevant industry sector and of SMEs representative;
- the avoiding of generic indication of intended use(s) originating in the market confusion regarding the functions of the products in the work and the applicability of the related harmonized technical specifications.

The work programme is composed by four milestones. As shown in annex II, tasks of specific milestones might be started and finalised in different periods (e.g certain tasks of milestone 2 may start before the Milestone 1 is fully achieved).

This has been done to enable that potential interdependencies between activities can be effectively managed, and to ensure that the work is undertaken as efficiently as possible.

The achievement of a milestone, in particular milestone III, might foresee a series of sub-milestones (Milestone III= A+B+C+D+E+F+G).

3.3 Description of the tasks

The structure of the work programme follows the list of Milestones identified in clause 2.2.

The complete and detailed work programme is presented in Annex 1. A common template has been used to set out the scope, the interdependences and the outcomes for the tasks of each Milestone.

For each task, the template defines priority items according to the likelihood that that aspect will be envisaged in future technical specifications (see CPR Acquis guidance), with specific justification provided where relevant. Potential risks on performing a task are also highlighted in the last column (including possible solutions).

An outline schedule (Gantt chart) for the execution of the work programme is included in Annex 2.

3.4 Organisation and coordination

The Commission ensures the effective coordination; experts can offer their support for the preparation of documents on a voluntary base.

Annex 1 – Detailed Work Programme

Milestone I: Definition of the scope of the product areas							
Sub-milestones: **none**							
Description of the milestone: **Identification of metallic products placed on the market ready to be used in metal, concrete, timber structural elements**							
Task Ref.	**Task name**	**Description of the task** (what is to be done)	**Interdependencies** (including tasks carried out by other subgroups)	**Outcomes** (what are the results expected)	**Priority colour code**	**Notes**	**Potential risks and solutions**
1	**Products**	- List of notified national regulatory provisions on metallic construction products selecting the relevant technical and/or administrative provisions - List of potential Member States regulatory needs envisaging further future technical and/or administrative provisions	Identification of data and technical needs related to possible interactions with other products, functions or part of the works. Possible interactions with aspects covered by European legislations other than the Regulation (EU) 305/2011 should also be considered	**List of products to be covered by future European harmonized technical specification**	**DARK GREEN**	- CPR definitions of "construction products", "making available on the market" and "placed on the market" - Overlaps between the tasks of the group and the needs of work designers - Selection of product on the basis of manufacturers production, product catalogues or ESO technical bodies field of competence or mission.	To consider relevant products placed on the market that are not ready to be permanently incorporated in the work or are used for installation operations To consider products on the basis of what potential customers / users / stakeholders require and not based on characteristics having an effect on performances of the works with respect to BWRs
2	**Material**	List of material currently used for the specific production process	Aspects covered by European legislations other than the Regulation (EU) 305/2011 should also	**List of materials for manufacturing the identified products**		Focus on the possible use of recycled materials used in manufacturing process	Limitations established in Member States based on notified regulatory provisions

			be considered (e.g., REACH)				
3	**End use(s)**	Identification of the specific part(s) of the work covered by the functions of metallic products (e.g., foundations, retaining walls, beams, galleries, roofs, internal partitions, etc.)	- Concrete (M/100) - Thermal insulation (M/103) - Chimneys (M/105) - Gypsum products (M/106) - Circulation fixtures (M111) - Timber (M/112) - Reinforcing steel (M/115) - Waste water (M/118) - Roof coverings (M/122) - Aggregates (M/125) - Pipes (M/131)	**List of end use(s) indicated when placing products on the market.**		- Clear indication of the physical location(s) where products are intended to be installed in works. - End use(s) to be independent from constituent materials	Possible overlaps with end use(s) outside the Construction product sector are to be avoided
4	**Form**	Identification of the form/shape for each identified end use(s)	Definition of the shape adopted for the identified products	**List of the form / shape of the identified products**		Formless products or products placed on the market in bulk are to be specifically mentioned	Inclusion of material, elements, products, ancillaries used for installation operations to be avoided

Milestone II: Creation of technical-boards							
Sub-milestones: none							
Description of the milestone: **Preparation of the working plan and definition of technical boards**							
Task Ref.	**Task name**	**Description of the task**	**Interdependencies** (including tasks carried out by other subgroups)	**Outcomes**	**Priority colour code**	**Notes**	**Potential risks and solutions**
1	**Working plan**	Based on the outcomes of Milestone 1, the work plan must be prepared.	The involvement of experts offered for other product areas is to be considered for horizontal aspects (e.g., structural issues)	**The list of aspects to be delegated to technical boards.**	**DARK GREEN**	The Gantt chart might be adjusted in accordance to the work plan.	
2	**Definition of the technical board**	The set of technical boards is defined in accordance to the working plan. Outputs and deadlines are to be established.	None	**For each technical board the objective and the deadline is defined.**	**DARK GREEN**	It can be decided that in some cases no technical board is needed. Potential links to other subgroups/technical boards should be identified.	
3	**Attribution of experts to the technical boards**	A consistent number of experts representing both the States and the stakeholders is attributed to each technical board.	None	**The composition of the technical boards.**	**DARK GREEN**		The number of experts available might not be sufficient to create the needed set of technical boards.

							Potentially merging of boards where possible

Milestone III: Prepare the content of the high-level structure of harmonized technical specifications

Sub-milestones:
a. Basic requirements for construction work and their essential characteristics (E.C.), including the identification of thresholds and classes of performance
b. Requirements ensuring the appropriate functioning and performance
c. Safety product requirements
d. Environmental product requirements
e. Environmental sustainability assessment of construction products
f. Environmental obligations of manufacturers
g. Information requirements

Description of the milestone: Technical content of future European harmonized technical specifications.

Task Ref.	Task name	Description of the task	**Interdependencies** (including tasks carried out by other working groups)	Outcomes	Priority colour code	Notes	Potential risks and solutions
a.1	**BWRs**	Identification of E.C. of products contributing to the satisfaction of each Basic Work Requirements (BWR) of each of the products listed in the outcome of Milestone I and for each of their end use(s)	Identification of the relevant data considered under different existing mandates regarding the same product and the same end use(s)	**List of Essential Characteristics (E.C.) of products relevant for each intended use(s) identified in task 3 of Milestone I**	**DARK GREEN**	Products of given materials included in different mandates covering different product areas	Time shifting due to the non-coincident starting of the activity of other sub-groups or working groups dealing with product areas identified in Milestone I as dealing with same products or end use(s)
a.2	**Classes**	Indication of essential characteristics of each product for	1 - Identification of modifications of classes included in existing harmonized	**1 - List of modified existing classes of each E.C.,**		1 – Attention to definitions of class given by the CPR	Increase the costs for all manufacturers, including SMSs, due to the need of

		which the expression of their performances is expected to be done using classes	standards that might originate potential problems when comparing products already on the market 2 - Identification of technical reasons justifying the introduction of classes determining unnecessary legal obligations to manufacturers;	**compared to those included in harmonized standards.** **2 - List of technical justifications supporting the introduction in E.C. of new classes or threshold levels.**		2 - Attention to possible market distortions or potential unfair competition between products already on the market with declared performances of essential characteristics not comparable with those subject to the modified conditions	repeating verifications for competition reasons
a.3	**Threshold levels**	Indication of essential characteristics of each product for which the expression of their performances is expected to be done using threshold levels	1 - Identification of modifications of threshold levels included in existing harmonized standards that might originate potential problems when comparing products already on the market 2 - Identification of technical reasons justifying the introduction of threshold levels determining unnecessary legal	**1 - List of modified existing threshold levels of each essential characteristics, compared to those included in harmonized standards** **2 - List of technical justifications supporting the introduction in essential characteristics**		1 – Attention to definitions of threshold levels given by the CPR 2 - Attention to possible market distortions or potential unfair competition between products already on the market with declared performances of essential characteristics not comparable with those subject to the modified conditions	

			obligations to manufacturers;	**of threshold levels.**			
a.4	**Verification methods**	Identification of the availability of verification methods (test-calculation-description-tabulated values) of performances of each essential characteristics of products indicated as outcome of task a.1	Checks of verification methods used for the same essential characteristic of the same product/material that are indicated as being relevant by other product areas	**1 – List of E.C. for which a verification method exists** **2 - List of products E.C. of products for which the verification method is not available in acceptable documents**		Avoid reference to non-European, national, private or sectoral documents	Reference only to European or International standards
b.1	**Maintaining declared performances**	Identification of specific product requirements, other than the E.C. directly linked to BWR, that might be relevant for the maintaining of the declared performances of products or materials placed on the market	Determination of phenomena that might occur in structures but not in a small-scale specimen	**List of the identified specific product requirements originated by the determined phenomena**	**LIGHT GREEN**	Attention to aspects and conditions appropriate to the end use(s) of products and/or materials, influencing the declared performances, separating the related manufacturer's responsibilities from those assigned to work designers	Impossibility of reaching the declared performances
b.2	**Use conditions**	Qualitative and/or quantitative definition of	Identification of detrimental aspects caused by interactions with	**List of verification methods or conditions**		Comparison with MS requirements related to works	Impossibility of using products or materials in case of MS requirements related to

		specific products requirements identified in task b.1	surrounding construction elements and/or conditions	**relevant for the control of the fulfilment of the qualitative and/or quantitative definitions of specific product requirements**			works conflicting with declared performances
b.3	**Work provisions**	Identification of national provisions established for works that potentially conflict with the provisions related to end use(s) of products envisaged by manufacturers	Consideration of the specific end use of all products belonging to the same area code	**List of work provisions potentially conflicting with product provisions**		Analysis of aspects related to the relevant end use(s)	National provisions for works prevail provisions envisaged for products by manufacturers
c.1	**Safety product requirements**	Identification of inherent product safety requirements	Issues aimed at avoiding potential detrimental effects to transporters, workers, installers, consumers, occupants	**List of product requirements related to inherent safety**	**RED**	Attention to the risks indicated in Part C of the CPR Acquis guidance (where relevant).	Care to separate risks related to product from risks related to construction works
d.1	**Environmental product requirements**	Identification of aspects related to the life-cycle of products, covering: - extraction of raw materials	Consideration of all end use(s) of all products belonging to the area code	**List of product requirements related to the environment**	**ORANGE**	Attention to the aspects indicated in Part D of the CPR acquis guidance (where relevant).	Missing achievement of a high level of protection of the environment according to Article 114 TFEU.

		- manufacturing of products - maintenance - recyclability - disposal					
e.1	**Sustainability assessment**	Preparation to the assessment of product sustainability.	Sustainable Products Initiative and CPR revision. Consideration of all end use(s) of all products belonging to the area code.	**List of essential characteristics related to life cycle assessment of Environmental Sustainability** **List of characteristics assessed determining the PCR**	**YELLOW**	Attention to the outcomes of SPI. Focus on the characteristics listed in Annex 5 to the CPR Acquis guidance.	Missing alignment with the European environmental policy
f.1	**Environmental obligations of manufacturers**	Analysis of the obligations pertinent for the area code of products	Sustainable Products Initiative and CPR revision. Consideration regarding how the obligations can be defined for all products belonging to the entire area code	**Identification of criteria and methods to set up the obligations in an effective and operational way**	**RED**	Attention to the potential obligations listed in Part F of the CPR Acquis guidance.	To note that obligations of this kind could hardly be laid down in standards, whilst they possibly could be laid down in Commission acts. This Part is hence not relevant for standardization writers
g.1	**Information requirements**	Identification of addressees	Consideration of all the relevant intervening actors of the building process	**List of the relevant addressees**	**LIGHT GREEN**	Consideration of the operators listed in Part G.I of the CPR Acquis guidance (where relevant).	Incomplete information addressed to building operators

g.2		Identification of the content of the information	Consideration of the peculiarities of the products. (e.g., information are needed related to installation, dismantling, performance, etc.)	**Set up individual modules containing the relevant information for each individual addressee listed in the outcome of g.1**		Consideration of the issues explained in Part G.II.1 of the CPR Acquis guidance (where relevant).	
g.3		Indication of the place where the information is available	Consideration of the peculiarities of the products.	**Specification regarding the location where the information is available**		More detail are given in Part G.II.2 of the CPR Acquis guidance.	Lack of completeness of European technical specifications
g.4		Determination of the information aspects to be covered	Consideration of the peculiarities of the products.	**Detailed indication of the content of the information to be provided**		The aspects listed in Part G.II.3 of the CPR Acquis guidance must be considered.	Incomplete information addressed to building operators

Milestone IV: Final consultation with observers and evaluation of all the deliverables.							
Sub-milestones: none							
Description of the milestone: **Final consultation on the outcomes and draft of the final report.**							
Task Ref.	**Task name**	**Description of the task**	**Interdependencies** (including tasks carried out by other working groups)	**Outcomes**	**Priority colour code**	**Notes**	**Potential risks and solutions**
1	Evaluation of the outcomes	The subgroup shall assess the outcomes of Milestone III, and address situations where a task has not be performed or has not been performed satisfactorily.		**Evaluation of the outcomes / Review of the outcomes / conduct further implementation of certain tasks.**	**DARK GREEN**	It is not needed that all the tasks of milestone III are achieved. In fact, this task can start as soon as the first outcomes of milestone III are delivered.	If during the implementation of the WP, the revision of the CPR has included aspects overlooked by this WP, those aspects must be addressed before the WP is completed.
2	Draft of reporting outputs.	The outcomes must be reported in a clear and transparent way.	Reporting models must be prepared by the Commission in advance.	**Outcomes reports.**	**DARK GREEN**	This task can start as soon as the first outcomes have been evaluated.	
3	**Consultation**	A broader consultation with stakeholders and even more precise target groups is conducted based on the outcomes.	The consultation should occur when Milestone III is fully achieved, outcomes evaluated and reporting models are all filled.	**Endorsement of the outcomes.**	**LIGHT GREEN**		Target groups might not be satisfied with some of the outcomes. In this case, where their objections are considered justified (improvements balance impacts of delayed deliveries) the objections should be addressed.

4	**Adoption of the outcomes.**	The Commission adopts the outcomes of the work programme. The outcomes are sent with a final report to the Steering Group and other interested subgroups.		**Final report on the work programme that include all the outcomes presented by means of the reporting model.**	**DARK GREEN**		The number of diverging positions is significant. The final report must detail on the reasons behind the diverging views.

Annex 2

Annex 3
Overview of harmonised Technical specifications available

Table 1 – European harmonized technical specifications

hEN/EAD title	hENs and EADs in OJEU	hENs cited after the entry in force of the CPR	EC rejection of revised version of cited standards	EC rejection of new standards received for possible citation	Standards proposed in the answer to mandate still missing
Double skin metal faced insulating panels - Factory made products - Specifications - Part 2: Structural applications - Fixings and potential uses of stabilization of individual structural elements					EN 14509-2
Aluminium and aluminium alloys — Structural products for construction works — Technical conditions for inspection and delivery	EN15088:2005				EN12020-2 Extruded Al alloys profiles
Execution of steel structures and aluminium structures — Part 1: Requirements for conformity assessment of structural components	EN1090-1:2009+A1:2011				EN485-2 Sheets, strips, plates
Hot rolled products of structural steels — Part 1: General technical delivery conditions	EN10025-1:2004				EN1386 Sheets, strips, plates from 1.2 to 20 mm
Cold formed welded structural hollow sections of non-alloy and fine grain steels — Part 1: Technical delivery condition	EN10219-1:2006				EN1396 coated strips, sheets
Hot finished structural hollow sections of non- alloy and fine grain steels — Part 1: Technical delivery conditions	EN10210 1:2006				EN1706 casting aluminium and alloys

Steels for quenching and tempering for construction purposes — Technical delivery conditions	EN10343:2009				WI110241 Cold formed welded stainless steel hollow sections
Stainless steels — Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes	EN10088-4:2009				XXX-Studs and ceramic ferrules for arc stud welding
Stainless steels — Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes	EN10088-5:2009				
Steel castings for structural uses	EN10340:2007 EN10340:2007/AC:2008				
Welding consumables — General product standard for filler metals and fluxes for fusion welding of metallic materials	EN13479:2017	EN13479:2017			
High-strength structural bolting assemblies for preloading — Part 1: General requirements	EN14399-1:2015	EN14399-1:2015			
Non-preloaded structural bolting assemblies — Part 1: General requirements	EN15048-1:2007		EN15048-1:2016		

Table 2 – Map of all the harmonised technical specifications

Area Code	Product Area (CPR/Annex IV)	Mandate	Title of Mandate	Standards in OJEU	Standards in OJEU withdrawn by CEN	Revised version of standards in OJEU rejected by EC	New standards not yet in OJEU rejected by EC	EADs adopted by EOTA	Cited EADs	ETAGs	EADs converting ETAGs
20	Structural metallic	M/120 as amended	Structural metallic	12	1	1	0	25	20	0	0

	products and ancillaries		products and ancillaries								