



# EUROPEAN CERAMIC TILE MANUFACTURERS' FEDERATION

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## CONSTRUCTION PRODUCTS REGULATION N° 305/2011

### GUIDE FOR APPLICATION OF CE MARKING FOR CERAMIC TILES

*(Supersedes “CET Guide for application of CE marking for ceramic tiles of February 2010”)*

#### 1. Aim of the Guide

This guide is a non binding recommendation intended to provide the manufacturers of ceramic tiles with a uniform basis for the interpretation of the requirements for CE marking and Declaration of Performance according to:

- i) Annex ZA of harmonised EN 14411:2012 Ceramic tiles – definitions, classification, characteristics, evaluation of conformity and marking.
- ii) Construction Products Regulation N° 305/2011 (CPR)

#### 2. Introduction

The CPR was published on 9<sup>th</sup> March 2011 and it lays down the harmonised conditions for the marketing of construction products, repealing Council Directive 89/106/EEC.

This new regulation will come into force on 1<sup>st</sup> of July 2013, introducing a series of changes in particular in relation to the CE marking documentation which needs to be prepared by construction products manufacturers and provided to the recipients of such products.

The most relevant changes, from the point of view of the manufacturer, include:

- a) In relation to the content of the CE marking, in addition to the actual information that is been provided, the following need also be specified:
  - i) unique identification code of the product type
  - ii) reference number of the Declaration of Performance (DoP)
  - iii) identification number of the notified body (laboratory), if applicable
- b) The new Declaration of Performance (DoP) replaces the previous Declaration of Conformity, with slightly larger content and of major relevance. The manufacturer will need to supply a copy of the DoP, either in paper form (only if the recipient requests it) or by electronic means, for each product which is made available on the market<sup>1</sup>.
- c) The manufacturer will need to have available all the relevant technical documentation used for the evaluation of the product and for the preparation of the DoP and the CE marking (test reports, product groups and families, factory production control manual, etc.). This documentation only needs to be supplied if requested by authorities.

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<sup>1</sup> Where a batch of the same product is supplied to a single user, it may be accompanied by a single copy of the DoP (see CPR art.7, pt. 1)

The last revision of EN 14411 published end of 2012 does not take into account the new CPR requirements; hence its Annex ZA will need to be revised accordingly in order to introduce the necessary changes. In the meantime, the basic aim of the CET guidelines is to provide ceramic tile manufacturers indications to facilitate the preparation of the new CE marking and Declaration of Performance in order to comply with the Regulation.

### 3. References

This guide has been developed taking into account the provisions and information included in the following references:

- Regulation (EU) No. 305/2011 of EU Parliament and Council of 9 March 2011
- EN 14411:2012 Ceramic tiles – Definitions, classification, characteristics, evaluation of conformity and marking”
- TF N 530 Rev 2 Construction Sector Standardization, Guidance document on implementation of CPR in harmonized standards

*NOTE: This document may need to be updated in the future when annex ZA of EN 14411 is updated according to CPR, or if new guidelines become available or provisions are published by the Commission which help clarify some of the still pending issues. For instance, it is foreseen that the Commission will publish a delegated act on the content of the DoP.*

### 4. EN 14411:2012 and its annex ZA

EN 14411:2012 “Ceramic tiles – Definitions, classification, characteristics, evaluation of conformity and marking” was published in October 2012. On 28th of February 2013, the updated list of harmonized standards was published in the OJEC 2013/C 59/01 including the reference to EN 14411:2012 (withdrawing and replacing EN 14411:2006) and specifying its application date as from 1<sup>st</sup> July of 2013, with a coexistence period of one year (until 01/07/2014).

One of the main changes with respect to the previous version is the introduction of decorative accessories or trims and mosaics in the scope of the standard; hence, these products are now affected by the CE marking. From the 1<sup>st</sup> of July 2013 manufacturers will be able to start affixing the CE marking on these products but it will not be obligatory until one year later (end of coexistence period is 01/07/2014).

The relevant essential characteristics applicable for floorings and walls are given respectively in tables ZA.1.1 and ZA.1.2. A new characteristic on ‘tactility’ is now considered, applicable only to tactile paving surfaces (when required for blind or vision impaired persons).

For the determination of the characteristic of slip resistance, reference is now made to recently approved CEN TS 16165. Manufacturers can use any of the four test methods included in the Technical Specification, unless a different test method is required by national regulations in the market of the relevant MS for the intended use.

Furthermore, the characteristic of skid resistance applicable to external road finishes and the characteristic of flexural strength which had to be declared for tiles in suspended ceilings (according to previous version of EN 14411) do not longer need to be considered since these intended uses are not covered now by the new standard.

Annex ZA also defines the procedures for attestation of conformity of ceramic tiles. System 4 of attestation generally applies to all characteristics (all tasks are under the responsibility of the manufacturer) except for the determination of release of dangerous substances, in which case the initial type testing needs to be carried out by a notified laboratory (system 3 of attestation).

Finally, the use of the CE marking requires to carry out initial type testing of the products and to establish a factory production control. Clause 6 of EN 14411 on 'Evaluation of Conformity' includes the minimum requirements for product testing and evaluation, and factory production control i.e. table 3 specifies minimum test frequencies depending on the characteristic. For the characteristic of breaking strength, the test needs to be carried out at least on a monthly basis (previously once a year).

## 5. CE Marking

### 5.1 Place of the CE marking

The CE marking and accompanying information shall be placed 'visibly, legibly and indelibly' on the product itself or to a label attached to it. When this is not possible, it shall be affixed on the packaging or to the accompanying documents (see article 9.1 of CPR).

Due to the nature of the product, in the case of ceramic tiles the CE marking and the additional information are to be placed, by order of hierarchy, on the packaging and/or in the accompanying commercial documents. In some cases, it may be appropriate to use a combination of locations for the CE marking, hence a minimum of information is included on the packaging, whilst the complete information appears on the accompanying documents (see ZA.3.2 of EN 14411). When the information is split in this way, the accompanying documents must include the complete CE marking information including the information already placed on the packaging. However, if the complete CE marking is placed on the packaging, the manufacturer does not need to include any other information on the accompanying documents.

Annex I includes some illustrative examples of the CE marking for ceramic tiles using a combination of these two locations.

### 5.2 Content of the CE marking

The CE marking consists of the following;

- a) CE marking symbol (same as in the previous Directive)
- b) name and registered address of the manufacturer, or identifying mark allowing identification of manufacturers name and address, easily and without ambiguity;

*If an importer or distributor places a product on the market under his name or trademark, he shall be considered a manufacturer for the purpose of this regulation and will be subject to the same obligations.*

- c) last two digits of the year in which the marking was first affixed;

*The CPR now clearly specifies that it refers to the year in which the marking was first affixed on the product, thus it should not be modified or updated on the successive years except when the product is modified and a new CE marking has to be prepared.*

*For those products that already had the CE marking before 1<sup>st</sup> of July 2013, the year shall be that of when the CE marking was first placed on the product. For instance, in the case of ceramic tiles it could be '05', '0,6' and so on. From now on, only when a new product type is placed on the market or changes are made to a given product that give rise to different levels of performance for the essential characteristics declared there is a need to update the year accordingly i.e. '13', '14'...*

*Furthermore, in practice, even if it is the case that new models, series or formats of ceramic tiles are developed by a company, provided the 'product type' remains the same*

and the product complies with the declared essential characteristics, there is no need to update the year.

- d) reference number of the Declaration of Performance;

*This number can be established under the manufacturers own criteria. In general, each CE marking for a given product type will be assigned an individual Declaration of Performance number. This number guarantees the traceability of the product, with regards its essential characteristics as declared in the DoP.*

- e) reference to the harmonised standard and year of its publication (EN 14411:2012);

- f) unique identification code of the product-type;

*According to the CPR (see art. 1.9) the term **product type** means “the set of representative performance levels or classes of a construction product”. For example, a product type would include all ceramic tiles whose essential characteristics are valid for any ceramic tile within the same product type (similar to product family).*

*It is important to note that reference to the standard classification (Bla, Ala, Blb, Blla, etc.) within the CE marking should be omitted, since this classification refers to non-harmonized product performance information<sup>2</sup> (it refers to products that comply with non CE marking characteristics).*

*The name or identification code of the product type is defined according to manufacturer’s own criteria. For ceramic tiles, an example of a possible term(s) to identify the product could be the indication of the general product type (dry pressed or extruded ceramic tiles) and the reference to the water absorption level.*

- *Example 1: dry pressed ceramic tiles with water absorption  $E_b \leq 0,5\%$*
- *Example 2: extruded ceramic tiles with water absorption  $3\% > E_b \leq 6\%$*

*If this information is not sufficient to identify a specific product type, additional information should be provided. For instance, example 1 above would commercially refer to a porcelain tile. However, in practice the same manufacturer may produce more than one type of porcelain tile (i.e. polished, glazed, technical) and it could be that each type has different levels of performance for some of the essential characteristics (hence, giving rise to more than one DoP). If this is the case, an additional term like ‘type 1’ can be included to distinguish between the different product types available.*

*Nevertheless, the manufacturer may use a different code or term, according to its own criteria, to identify the different product types.*

- g) intended use(s) as laid down in harmonised standard;

*Internal and/or external floorings (including stairs) and walls.*

- h) identification number of notified laboratory, if applicable;

*The **identification number of the notified laboratory** is only required to be specified when the product is subject to system 3 of evaluation, in which case a notified laboratory*

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<sup>2</sup> See clause 1.1.4, pt.10, of CEN Guidance document TF N 530 Rev 2 on Implementation of CPR in harmonized standards, which says that, when referring to the product type “it cannot contain non-harmonized product performance information”.

necessarily has to be involved. For ceramic tiles, this is only the case when determining the release of dangerous substances. If no performance value is determined for this characteristic (i.e. NPD option is used) there is no need to specify the laboratory identification number.

Generally, this characteristic is not commonly determined for ceramic tiles and most manufacturers use the NPD option. When this is the case, this number will not appear in the CE marking information and furthermore, in the DoP there is no need to identify the specific notified laboratory, tasks carried out and the documentation issued (manufacturer can directly indicate non-applicable).

i) list of the essential characteristics and their level or class of performance

List of essential characteristics relevant for the intended end use(s), systematically reproduced as given in tables ZA.1.1 and/or ZA.1.2 of EN 14411, and their level or class of the performance declared. Only essential characteristics relevant for the intended use and for which a value or class of performance has been declared need to be included in the CE marking. Characteristics which performance is not declared and the 'NPD' (no performance determined) option is used do not need to be included. It is in the DoP where all the relevant characteristics need to appear, regardless whether a performance value has been declared or not.

Furthermore, the performance of at least one of the essential characteristics relevant for the intended use needs to be declared (see art.6.3.c of CPR); hence an 'empty' CE marking or DoP with 'NPD' for all characteristics is not permitted.

The ceramic tile characteristics relevant for CE marking include:

Reaction to fire: ceramic tiles are classified as A1 (in case of walls) and A1<sub>FL</sub> '(floors) without testing'.

Release of dangerous substances: only when required by national regulation.

Breaking strength: only applicable to floor tiles.

Bond strength/adhesion: applicable to wall tiles "for intended uses subject to requirements against accidental fall of objects on to transit areas". When performing the test, the actual tiles and the suitable adhesives or mortar shall be used. The relevant adhesive type and the performance level determined shall be declared. When stating the type of adhesive (C, D or R), the class (1 or 2) should also be indicated since the results can vary considerably. For adhesives only suitable for internal uses (cementitious adhesives that do not meet the requirements for climate/heat ageing and/or for freeze/thaw cycling) since no classification for them is given in the standard, it should indicate "cementitious adhesives not suitable for external uses" without stating any class.

Since for some cases there will be more than one type of adhesive that can be used, it is suggested to test only with recommended adhesive most commonly used for the product type subject to CE marking.

It is worth mentioning that the harmonised standard recognises that 'there might be no correlation between the declared bond strength and the performance of the tile in use'.

Slipperiness: Relevant for floorings on pedestrian circulation areas, only when required by regulation.

When there is no legal requirement for the intended use in the Member State of destination, the manufacturer may use the NPD option (no performance determined). However, when determined, the test method applied and the units/performance as

indicated therein shall be declared. In this case, CEN/TS 16165 can be referred to, unless a different test method is required by national regulations in the market of the relevant Member State for the intended use.

In practice, it is often the case that some companies produce a product type with a wide variety of surface finishes with different slip resistance characteristics, whilst the rest of the essential characteristics in the product type remain the same and are common to all products/models in the same product type or family. This makes it particularly difficult and practically unviable (not to mention the important associated costs) to have a different CE marking and DoP for each product/model having a different slip resistance performance, since it would mean having a large number of box packages and be able to differentiate each one during production. For these reasons, one possible way that seems appropriate to help solve this issue and that would considerably simplify the procedures whilst guaranteeing traceability is to provide in a given individual DoP for a product type (in a table attached or annexed to the DoP), the slip resistance characteristics according to the different models/series in the product type. An example of this is provided in Annex II (example 1 b) of this guide. This is only one possibility as there may be other options used by manufacturers, depending on the complexity and variety of products they manufacture.

Thermal shock resistance: required only for external wall finishes subject to localised thermal shock.

Tactility: for tactile paving surfaces only i.e. when required for blind or vision impaired persons.

Durability: for internal uses declare as 'Pass' and for external uses according to freeze thaw resistance ("Pass", "not passed" or "NPD").

For products intended to be used for floorings and wall finishes, the characteristics shown in the CE marking relevant to both uses may be combined.

The CPR does not include any criteria for the language to be used in the CE marking.

## **6. DECLARATION OF PERFORMANCE (DoP)**

A copy of the DoP of each product which is made available on the market<sup>3</sup> shall be supplied either in paper form (only when requested by recipient) or by electronic means.

The CPR does not specify if the declaration needs to be prepared for each 'individual' product or if it can be emitted for each 'family' of products, thus in principle it is possible to emit one DoP for each product-type or family of products with same characteristics, according to manufacturer's own criteria.

The DoP shall be supplied in the language(s) required by the Member State where the product is made available. Furthermore, manufacturers shall keep the technical documentation and the DoP available for a period of at least 10 years.

### **6.1 DoP content**

The DoP shall be drawn up using the model set out in Annex III of the CPR, and it shall contain, in particular, the following information (see art. 6 of CPR):

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<sup>3</sup> Where a batch of the same product is supplied to a single user, it may be accompanied by a single copy of the DoP (see CPR art.7, pt. 1)

- (i) reference number of declaration of performance:

*This number can be established under the manufacturers own criteria.*

- (ii) Unique identification code of the product-type (see clause 5.2 f). Type, batch or serial number or any other element allowing identification of the construction product.

*The concept of 'type, batch or serial number' appears only in annex III of CPR whereas in art.11 it refers to these terms as other means of identifying the product. For the case of ceramic tiles, for the time been (or at least until the Commission clarifies this aspect or publishes a delegated act on the content of the DoP) it is better to omit the batch or serial number within the CE marking or DoP as it would oblige manufacturers to emit a different DoP for each batch. Hence, the type and unique identification code of the product are sufficient to clearly identify the product concerned in terms of CE marking (essential characteristics).*

- (iii) Intended use(s) of the product

*Internal and/or external floorings (including stairs) and walls.*

- (iv) Name, registered name or registered trademark and contact address of the manufacturer

- (v) System(s) of assessment and verification of constancy of performance (AVCP)

*For ceramic tiles, generally system 4 applies except for the determination of release of dangerous substances, where a notified laboratory needs to be involved.*

- (vi) Name and identification number of the notified body (laboratory) involved, if relevant/Tasks carried out/AVCP system/test report issued

*Only when a notified laboratory has been involved for the determination of dangerous substances.*

- (vii) Declared performances

*List of essential characteristics as determined in annex ZA of harmonised standard according to intended use, and level or class of performance declared. 'NPD' shall be indicated when no performance is declared.*

- (viii) Reference number and date of issue of the harmonised standard

*EN 14411:2012 for all essential characteristics.*

It is important to note that the performance of at least one of the essential characteristics relevant for the intended use needs to be declared (see art.6.3.c); hence an 'empty' DoP with 'NPD' for all characteristics is not permitted.

An example of a declaration of conformity is provided in Annex II

## ANNEX I - CE MARKING EXAMPLES

In order to facilitate understanding, the changes with respect to the previous marking are indicated in red.

	<p><i>NOTES:</i></p> <p><i>CE marking symbol</i></p> <p><i>Identification number of notified laboratory, <u>where applicable</u></i></p>
<p>AnyCo Ltd, PO Box 21, B-1050</p> <p>05</p> <p>001CPR2013-07-14</p>	<p><i>Name or identifying mark, and registered address of the manufacturer</i></p> <p><i>Last two digits of the year in which the marking was <u>first</u> affixed</i></p> <p><i>Reference number of the declaration of performance</i></p>
<p><b>EN 14411:2012</b></p> <p>Dry-pressed ceramic tiles, <b>with water absorption</b>  <math>E_b \leq 0,5\%</math>, for internal and external walls and floorings</p>	<p><i>Dated reference of the harmonized standard applied</i></p> <p><i>Name and unique identification code of the product type and intended use.</i></p>

**Figure 1 - Example of reduced or simplified CE marking on packaging**

Notes:

- (i) It is only necessary to indicate the identification number of the notified laboratory when a performance for the release of dangerous substances has been declared. In the above example, this is not applicable.
- (ii) In the above example, the year in which the marking was first affixed is shown as '05', since it refers to a product which already had the CE marking since 2005 and therefore shall continue to indicate the same year. Only for new products shall the year '13' or successive one be indicated accordingly.
- (iii) For the unique identification code of the product, the type of ceramic tile (dry pressed or extruded) and the level of water absorption information have been provided to identify the product type.
- (iv) It is worth reminding that, in the case of ceramic tiles the CE marking and the additional information are to be placed, by order of hierarchy, on the packaging and/or in the accompanying commercial documents. In some cases, it may be appropriate to use a combination of locations for the CE marking, hence a minimum of information is included on the packaging, whilst the complete information appears on the accompanying documents. When the information is split in this way, like in the above figure 1, the accompanying documents must include the complete CE marking information including the information already placed on the packaging. However, if the complete CE marking is placed on the packaging, the manufacturer does not need to include any other information on the accompanying documents (see figures 2 and 3).

	
AnyCo Ltd, PO Box 21, B-1050 05 001CPR2013-07-20	
<b>EN 14411:2012</b> Dry-pressed ceramic tiles, with water absorption $E_b \leq 0,5\%$ , for internal and external walls and floorings	
<b>Reaction to fire</b>	A1 <sub>FL</sub> /A1
<b>Breaking strength</b>	> 1 300 N
<b>Slipperiness, as:</b>	
PTV slider 57, CEN/TS 16165:2011 Annex C	> 0,35
<b>Bond strength/adhesion, for:</b>	
Cementitious adhesive, type C2	1 N/mm <sup>2</sup>
<b>Thermal shock resistance</b>	Pass
<b>Durability for:</b>	
- internal use:	Pass
- external use: freeze-thaw resistance	Pass

NOTES:

CE marking symbol

Identification number of notified laboratory, where applicable

Name or identifying mark, and registered address of the manufacturer

Last two digits of the year in which the marking was first affixed

Reference number of the declaration of performance

Dated reference of the harmonized standard applied

Name and unique identification code of the product type and intended use

List of essential characteristics relevant to end use(s) (see tables ZA.1.1 and/or ZA.1.2) and level or class of the performance declared

Characteristics declared as NPD do not need to be included

**Figure 2 – Example of complete CE marking of ceramic tiles used as internal and external walls and floorings**

Notes:

- (i) Only essential characteristics relevant for the intended use and for which a value or class of performance has been declared need to be included in the CE marking. Characteristics where the 'NPD' option is used do not need to be included. It is in the DoP where all the relevant characteristics need to appear, regardless whether a performance value has been declared or not. For instance, in the above example the characteristic of 'tactility' is also applicable (relevant for floorings) as well as release of dangerous substances, however they are not included since no performance has been declared.
- (ii) For internal uses, the characteristic of durability needs to be included even though the standard recognizes that the durability aspect for ceramic tiles is considered as deemed to be satisfied (indicate as 'Pass').

 <b>0321</b>	
AnyCo Ltd, PO Box 21, B-1050  05  <b>002CPR2013-07-20</b>	
<b>EN 14411:2012</b>  Dry-pressed ceramic tiles, <b>with water absorption</b> <b>0,5% &lt; E<sub>b</sub> ≤ 3 %</b> , for internal and external walls and internal floorings	
<b>Reaction to fire</b>	A1 <sub>FL</sub> /A1
<b>Breaking strength</b>	> 1 100 N
<b>Release of dangerous substances, for:</b>	
- Cadmium	0,1 mg/dm <sup>2</sup>
- Lead	0,1 mg/dm <sup>2</sup>
<b>Bond strength/adhesion, for:</b>	
Cementitious adhesive, type C2	1 N/mm <sup>2</sup>
<b>Thermal shock resistance</b>	Pass
<b>Durability, for:</b>	
- internal use:	Pass
- external use: freeze-thaw resistance	Pass

**NOTES:**

*CE marking symbol*

*Identification number of notified laboratory, where applicable*

*Name or identifying mark, and registered address of the manufacturer*

*Last two digits of the year in which the marking was first affixed*

*Reference number of the declaration of performance*

*Dated reference of the harmonized standard applied*

*Name and unique identification code of the product type and intended use*

*List of essential characteristics relevant to end use(s) (see tables ZA.1.1 and/or ZA.1.2) and level or class of the performance declared*

*Characteristics declared as NPD do not need to be included*

**Figure 3 - CE marking for dry pressed ceramic tiles used for internal and external walls and floorings**

Note:

- (i) Like in the previous example, the ‘tactility’ characteristic is also relevant but it has not been included as its performance has not been determined (NPD). Likewise for slipperiness.

<b>CE</b>		<b>NOTES:</b>
AnyCo Ltd, PO Box 21, B-1050		<i>CE marking symbol</i>
05 003CPR2013-07-20		<i>Identification number of notified laboratory, where applicable</i>
<b>EN 14411:2012</b> Dry-pressed ceramic tiles, with water absorption $E_p > 10\%$ , for internal walls		<i>Name or identifying mark, and registered address of the manufacturer</i>
<b>Reaction to fire</b>		<i>Last two digits of the year in which the marking was first affixed</i>
A1		<i>Reference number of the declaration of performance</i>
<b>Bond strength/adhesion, for:</b>		<i>Dated reference of the harmonized standard applied</i>
Cementitious adhesive, type C1		<i>Name and unique identification code of the product type and intended use</i>
0,5 N/mm <sup>2</sup>		<i>List of essential characteristics relevant to end use(s) (see tables ZA.1.1 and/or ZA.1.2) and level or class of the performance declared</i>
<b>Durability, for:</b>		
- internal use:		
Pass		<i>Characteristics declared as NPD do not need to be included</i>

**Figure 4 – CE marking for ceramic tiles used in internal walls**

Notes:

- (ii) The notified laboratory has not been identified since no value is declared for release of dangerous substances.
- (iii) Release of dangerous substance not indicated since NPD.
- (iv) It is important to remember that at least one characteristic needs to be declared (with a performance value or class).

# ANNEX II - EXAMPLE 1 a) DECLARATION OF PERFORMANCE

No. 001CPR2013-07-20

1. Unique identification code of the product type  
Type, batch or serial number or any other element allowing identification of the product  
**Dry-pressed ceramic tiles, with water absorption  $E_b \leq 0,5 \%$**
2. Intended use(s)  
**For internal and external walls and floorings**
3. Name or registered trade mark, and contact address of the manufacturer  
**AnyCo Ltd, PO Box 21, B-1050**
4. System(s) of assessment and verification of constancy of performance (AVCP)  
**Systems 4**
5. Name and identification number of notified laboratory, if relevant – **Not applicable**  
Task(s) carried out  
AVCP system  
Document issued and date of issue

6. Declared performances

Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	<b>A1<sub>FL</sub>/A1</b>	<b>EN 14411:2012</b>
<b>Release of dangerous substance, for:</b>		
- Cadmium	<b>NPD</b>	
- Lead	<b>NPD</b>	
<b>Breaking strength</b>	<b>&gt; 1 300 N</b>	
<b>Slipperiness:</b>		
PTV slider 57, CEN/TS 16165:2011 Annex C	<b>&gt; 0,35</b>	
<b>Tactility</b>	<b>NPD</b>	
<b>Bond strength/adhesion, for:</b>		
Cementitious adhesive, type C2	<b>1 N/mm<sup>2</sup></b>	
<b>Thermal shock resistance</b>	<b>Pass</b>	
<b>Durability for:</b>		
- internal use:	<b>Pass</b>	
- external use: freeze-thaw resistance	<b>Pass</b>	

The performance of the product identified in point 1 is in conformity with the declared performances in point 6.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

.....  
Name and function

.....  
Place and date of issue

.....  
Signature

## ANNEX II - EXAMPLE 1 b) DECLARATION OF PERFORMANCE

No. 001CPR2013-07-20

1. Unique identification code of the product type  
Type, batch or serial number or any other element allowing identification of the product  
**Dry-pressed ceramic tiles, with water absorption  $E_b \leq 0,5 \%$**
2. Intended use(s)  
**For internal and external walls and floorings**
3. Name or registered trade mark, and contact address of the manufacturer  
**AnyCo Ltd, PO Box 21, B-1050**
4. System(s) of assessment and verification of constancy of performance (AVCP)  
**Systems 4**
5. Name and identification number of notified laboratory, if relevant – **not applicable**  
Task(s) carried out  
AVCP system  
Document issued and date of issue

6. Declared performances

Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	<b>A1<sub>FL</sub>/A1</b>	<b>EN 14411:2012</b>
<b>Release of dangerous substance, for:</b>		
- Cadmium	<b>NPD</b>	
- Lead	<b>NPD</b>	
<b>Breaking strength</b>	<b>&gt; 1 300 N</b>	
<b>Slipperiness</b>	See table attached	
<b>Tactility</b>	<b>NPD</b>	
<b>Bond strength/adhesion, for:</b>		
Cementitious adhesive, type C2	<b>1 N/mm<sup>2</sup></b>	
<b>Thermal shock resistance</b>	<b>Pass</b>	
<b>Durability for:</b>		
- internal use:	<b>Pass</b>	
- external use: freeze-thaw resistance	<b>Pass</b>	

The performance of the product identified in point 1 is in conformity with the declared performances in point 6.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

.....  
Name and function

.....  
Place and date of issue

.....  
Signature

**Table - Slipperiness (where required by regulation)**

		DIN 51130 (DE)	BCRA D.M. 236/1989 (ITA)	Documento básico SUA (ESP)	Others...
TEST METHOD USED		<i>Ramp...</i>	<i>Tortus...</i>	<i>Pendulum...</i>	
Series	Product	<i>Performance value/class</i>			
Rivers	Thames	R9	> 0,40	RD > 15	
	Seine	R10	> 0,40	RD > 35	
	Tevere	NPD	NPD	NPD	

*etc...*