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# Obligations with the new

# CPR 305/2011

# The Regulations for Construction Products

The DoP - declarations of Performance - products Landini SpA

# ROOFING

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# 2. Introduction

Dear Customer,

E ' was published in the Official Journal of the European Union L88/12 of 4 April 2011, the EU Regulation . 305/2011 laying down the conditions for the marketing of construction products and repealing the Construction Products Directive 89/106.

This Regulation lays down the conditions for the placing on the market of construction products . It also defines criteria for assessing the performance of these products and the conditions of use of the CE marking .

The Construction Products Regulation (CPR 305/2011) is fully operational as from1 July 2013.

Following are the main novelty of the Regulation relating to the obligations of Manufacturers

The manufacturers shall draw up the DoP. For each CE marked product the manufacturer must issue a DoP that replaces the current "Declaration of Conformity " and that , among other information , reports the performance of the product declared on the basis of the relevant harmonized technical specification ( harmonized European standard )
The main purpose of the DoP is to enable customers and consumers to compare different products placed on the market, on the basis of common elements , identifies able and measurable , allowing you to identify the most suitable product for intended use .

L 'Art 7.1 states verbatim " And ' provided a copy of the DoP of each product made available on the market, in paper form or by electronic means ." However, the Commission , by means of delegated acts , regulate the procedure for making available the DoP also on web site And ' address prevalent to consider it necessary to send the first delivery of the DoP and whenever the product or rule are amended . - The manufacturer must affix the CE marking in the manner provided in Art. 9 . The marking must include the reference number of the DoP .

- The manufacturer shall keep the technical documentation and the DoP for a period of 10 years

- The manufacturers ensure that procedures are in place to ensure that series production maintains the declared performance

The products manufactured in accordance with the existing harmonized standards and placed on the market before July 1, 2013, shall be deemed to comply with the new Regulation.

Landini S.p.a. distributes to customers this collection of DoP of its products in electronic format ( in PDF format ) .

# 3. Products for covering

- 3.1 Fiber cement sheets ONDABAND
- 3. 2 Metal Roofing LAGRECA

## 3.1. Fiber cement sheets ONDABAND

## 3.1.1. Covering EUROPA P177-ONDABAND



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



Sada; Via Eugenio Curisi, 27/A – 42024 CASTELNOVO SOTTO (Reggio Emilia) – Italy C.C.I.A.A. di Rien, 173045 – Reg. Soc. Trib. di Rien, 16414 Cod. Rec. e Part, V A 01274540956

COVERING EUROPA P177-ONDABAND

### DECLARATION OF PERFORMANCE (DoP)

#### Nº 01-F-EN

1. Unique identification code of the product-type:

01 - F - P177-O - Fiber cement profiled sheets UNI EN 494 : 2012

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): COVERING EUROPA P177-ONDABAND

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 177 mm, height of 51 mm and a thickness of 6.5 mm, available in 5 waves (width 920 mm) or 6 waves (width mm 1097), in gray natural Stratocolor, Nuance, painted, suitable for covering civil and industrial buildings and wall cladding interior, exterior and ceilings.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if relevant) performed \_\_\_\_\_\_under system (description of the third party tasks as set out in Annex V) and issued ...(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

SGS INTRON Zertifikat: CTG-380 (Gültigkeit liegt vor) Address: Venusstraat 2 Postbus 267 4100 AG CULEMBORG - OLANDA

CSTB Centre Scientifique et Tecnique du Batiment Zertifikat: 077-H1 (Gültigkeit liegt vor) Address: Avenue Jean Jaures 84 Champs Sur Marne 77447 MARNE-LA-VALLEE CEDEX 2 - FRANCIA

MPA STUTTGART Otto-Graf-Institut Zertifikat: Z-31.1-157 (Gültigkeit liegt vor) Address: Pfaffenwaldring 32 D-70569 STUTTGART (VAIHINGEN) – GERMANIA





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COVERING EUROPA P177-ONDABAND

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X  | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms  | EN 15057<br>(not applicable to accessories)                 |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | A1  | EN 13501  |
| Water permeability  | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 920 – 1097 -5 +10<br>mm 6,5 ± 0,6<br>mm 177 ± 2<br>mm 51 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70   | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70   | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | RL> 0,70  | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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## 3.1.2. Covering EUROPA P146-ONDABAND



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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COVERING EUROPA P146-ONDABAND

DECLARATION OF PERFORMANCE (DOP)

#### Nº 03-F-EN

1. Unique identification code of the product-type:

03 - F - P146-O - Fiber cement profiled sheets UNI EN 494 : 2012

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): COVERING EUROPA P146-ONDABAND

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 146,5 mm, height of 47,6 mm and a thickness of 6.5 mm, available in widths of 1054 mm, in gray natural Stratocolor, Nuance, painted.

The plates are suitable for covering civil and industrial buildings.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(3): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone, 0522/688811 - Fax 0522/688870 <u>commerciale@landinispa.com</u> <u>www.landinispa.com</u>

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if relevant)
performed \_\_\_\_\_\_\_\_under system \_\_\_\_\_\_\_(description of the third party tasks as set out in Annex V)
and issued \_\_\_\_\_\_\_\_.(certificate of constancy of performance, certificate of conformity of the factory production control,
test/calculation reports - as relevant)
Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

(name and identification number of the Technical Assessment Body, if relevant) issued (reference number of the European Technical Assessment) on the basis of, (reference number of the European Assessment Document) performed\_\_\_\_\_\_\_under system, (description of the third party tasks as set out in Annex V)

and issaed

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable



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COVERING EUROPA PI46-ONDABAND

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X  | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms  | EN 15057<br>(not applicable to accessories)                 |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | A1  | EN 13501  |
| Water p <mark>erm</mark> eability   | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 1054 -5 +10<br>mm 6,5 ± 0,6<br>mm 146,5 ± 2<br>mm 47,6 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70   | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70   | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | R <sub>L</sub> > 0,70   | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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# 3.1.3. Covering EUROPA ALLA ROMANA



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati





COVERING EUROPA ROMANA

DECLARATION OF PERFORMANCE (DOP)

#### Nº 04-F-EN

1. Unique identification code of the product-type: 04 - F - ROMANA - Fiber cement profiled sheets UNI EN 494 : 2012 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): **COVERING EUROPA ROMANA** 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the Corrugated fiber cement eco-friendly, with a pitch waveform 270 mm, height of 35 mm and a thickness of 6.5 mm, available in widths of 570 mm and 1150 mm, in gray natural and painted. The plates are suitable for covering civil. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com 5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3. 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: (name and identification number of the notified body, if relevant)
performed \_\_\_\_\_\_under system (description of the third party tasks as set out in Armex V) . (certificate of constancy of performance, certificate of conformity of the factory production control, and issued test/calculation reports - as relevant) Not Applicable 8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: (name and identification number of the Technical Assessment Body, if relevant) issued (reference number of the European Technical Assessment) on the basis of. (reference number of the European Assessment Document)

performed \_\_\_\_\_\_\_under system. (description of the third party tasks as set out in Annex V)

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable



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COVERING EUROPA ROMANA

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X  | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | NPD   | EN 15057<br>(not applicable to accessories)                 |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | A1  | EN 13501  |
| Water permeability  | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 570 - 1150 -5 +10<br>mm 6,5 ± 0,6<br>mm 270 ± 2<br>mm 35 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70   | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | RL> 0,70  | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | RL> 0,70  | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Laudini s.p.a.

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# 3.1.4. Covering P9-ONDABAND



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati





COVERING PP-ONDABAND

DECLARATION OF PERFORMANCE (DOP)

#### Nº 05-F-EN

1. Unique identification code of the product-type: 05 - F - P9-O - Fiber cement profiled sheets UNI EN 494 : 2012

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): COVERING P9-ONDABAND

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer.

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 177 mm, height of 51 mm and a thickness of 6.5 mm, available in widths of 1025 mm, in gray natural and painted. It' possible to supply the product with chamfers and holes for installation. The plates are suitable for covering civil and industrial buildings.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if nelevant)
performed \_\_\_\_\_\_\_ under system \_\_\_\_\_\_ (description of the third party tasks as set out in Annex V)
and issued \_\_\_\_\_\_ (certificate of constancy of performance, certificate of conformity of the factory production control,
test/calculation reports -\_\_\_\_\_ as relevant)
Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

(name and identification number of the Technical Assessment Body, if relevant) issued (reference number of the European Technical Assessment) on the basis of, (reference number of the European Assessment Document) performed\_\_\_\_\_\_under system. (description of the third party tasks as set out in Annex V)

and issaed

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable



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COVERING P9-ONDABAND

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X                                      | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms  | EN 15057<br>(not applicable to accessories)                 |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | A1  | EN 13501  |
| Water permeability  | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 1025 -5 +10<br>mm 6,5 ± 0,6<br>mm 177 ± 2<br>mm 51 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70                                     | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70                                     | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | RL> 0,70  | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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## 3.1.5. Covering P6



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Sada: Via Eugenio Curtei, 27/A - 42024 CASTELNOVO SOTTO (Reggio Emilia) - Italy C.C.I.A.A di R.E.n. 173045 - Reg. Soc. Trib. di R.E.n. 16414 Cod. Rec. e Part. V A 01274540395



COVERING PS

#### DECLARATION OF PERFORMANCE (DOP)

#### Nº 06-F-EN

1. Unique identification code of the product-type:

06 - F - P6 - Fiber cement profiled sheets UNI EN 494 : 2012

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4); **COVERING P6** 

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 146,5 mm, height of 47,6 mm and a thickness of 6.5 mm, available in widths of 1086 mm, in gray natural, painted. It' possible to supply the product with chamfers and holes for installation. The plates are suitable for covering civil and industrial buildings.

Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) 4. Name, regi Phone. 0522/688811 - Fax 0522/688870 commerciale@landinispa.com www.landinispa.com

Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concernine a construction product covered by a harmonised standard:

(name and identification number of the notified body, if relevant) performed (description of the third party tasks as set out in Annex V) \_\_\_\_ under system and issued . (certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

(name and identification number of the Technical Assessment Body, if relevant) issued (reference number of the European Technical Assessment) on the basis of. (reference number of the European Assessment Document) performed . under system. (description of the third party tasks as set out in Annex V)

and issaed.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable



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COVERING PS

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X  | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms  | ACR [M] 001: 2005<br>(not applicable to accessories)        |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | Classe 1  | BS 476/7  |
| Water p <mark>erm</mark> eability   | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 1086 -5 +10<br>mm 6,5 ± 0,6<br>mm 146,5 ± 2<br>mm 47,6 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70   | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70   | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | R <sub>L</sub> > 0,70   | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini 5.p.a.

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## 3.1.6. Underlay EUROPA P200,5-ONDABAND



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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UNDERLAY EUROPA P200,5-ONDABAND

DECLARATION OF PERFORMANCE (DOP)

#### Nº 07-F-EN

1. Unique identification code of the product-type:

07 - F - P200,5-O - Fiber cement profiled sheets UNI EN 494 : 2012

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): UNDERLAY EUROPA P200,5-ONDABAND

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 200,5 mm, height of 60 mm and a thickness of 6.5 mm, available in widths of 1043 mm, in gray natural Stratocolor, Nuance, Mircolor, painted.

The plates are suitable for covering civil and industrial buildings or as a support for tile width 170+190.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(3): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if relevant)
performed \_\_\_\_\_\_\_under system (description of the third party tasks as set out in Annex V)
and issued . (certificate of constancy of performance, certificate of conformity of the factory production control,
test/calculation reports - as relevant)
Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

(name and identification number of the Technical Assessment Body, if relevant) issued (reference number of the European Technical Assessment) on the basis of, (reference number of the European Assessment Document) performed\_\_\_\_\_\_\_under system, (description of the third party tasks as set out in Annex V)

and issaed

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable



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UNDERLAY EUROPA P200,5-ONDABAND

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X  | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms  | EN 15057<br>(not applicable to accessories)                 |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | A1  | EN 13501  |
| Water p <mark>erm</mark> eability   | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 1043 -5 +10<br>mm 6,5 ± 0,6<br>mm 200,5 ± 2<br>mm 60 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70                                       | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70                                       | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | R <sub>L</sub> > 0,70                                       | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 16/12/2013

Landini 5.p.a.

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## 3.1.7. Underlay EUROPA P234,8-ONDABAND



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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UNDERLAY EUROPA P234,8-ONDABAND

DECLARATION OF PERFORMANCE (DOP)

#### Nº 09-F-EN

1. Unique identification code of the product-type:

09 - F - P234,8-O - Fiber cement profiled sheets UNI EN 494 : 2012

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): UNDERLAY EUROPA P234,8-ONDABAND

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 234,8 mm, height of 57,4 mm and a thickness of 6.5 mm, available in widths of 970 mm, in gray natural Stratocolor, Nuance, painted.

The plates are suitable for covering civil and industrial buildings or as a support for tile width 190-220.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone. 0522/ 688811 - Fax 0522/ 688870 <u>commerciale@landinispa.com</u> <u>www.landinispa.com</u>

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if nelevant)
performed \_\_\_\_\_\_\_under system \_\_\_\_\_\_(description of the third party tasks as set out in Annex V)
and issued \_\_\_\_\_\_(certificate of constancy of performance, certificate of conformity of the factory production control,
test/calculation reports -\_\_as relevant)
Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

CSTB Centre Scientifique et Tecnique du Batiment Zertifikat: 077-H1 (Gültigkeit liegt vor) Address: Avenue Jean Jaures 84 Champs Sur Marne 77447 MARNE-LA-VALLEE CEDEX 2 - FRANCIA

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UNDERLAY EUROPA P234,8-ONDABAND

| Essential characteristics   | Performance  | Harmonised technical<br>specification                       |
|---|--|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X   | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms   | EN 15057<br>(not applicable to accessories)                 |
| External fire performance   | B roof   | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | A1   | EN 13501  |
| Water permeability  | Conforms   | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 970 -5 +10<br>mm 6,5 ± 0,6<br>mm 234,8 ± 2<br>mm 57,4 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70  | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70  | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | RL> 0,70   | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms   | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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# 3.1.8. Covering EUROSIX-LAN



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati





COVERING EUROSIX-LAN

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#### DECLARATION OF PERFORMANCE (DOP)

#### Nº 10-F-EN

1. Unique identification code of the product-type:

10 - F - EUROSIX-LAN - Fiber cement profiled sheets UNI EN 494 : 2012

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): COVERING EUROSIX-LAN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

Corrugated fiber cement eco-friendly polypropylene reinforced with straps and accessories, with a pitch waveform 146,5 mm, height of 47,6 mm and a thickness of 6.5 mm, available in widths of 1086 mm, in gray natural Stratocolor, painted. It' possible to supply the product with chamfers and holes for installation. The plates are suitable for covering civil and industrial buildings.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. - , via Eugenio Curiel 27/A - Castelnovo di Sotto (RE) Phone. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: Il sistema di valutazione e verifica, è un sistema 3.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if nelevant)
performed \_\_\_\_\_\_\_under system \_\_\_\_\_\_(description of the third party tasks as set out in Annex V)
and issued \_\_\_\_\_\_(certificate of constancy of performance, certificate of conformity of the factory production control,
test/calculation reports -\_\_\_\_as nelevant)
Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

(name and identification number of the Technical Assessment Body, if relevant) issued (reference number of the European Technical Assessment) on the basis of, (reference number of the European Assessment Document) performed\_\_\_\_\_\_\_under system. (description of the third party tasks as set out in Annex V)

and issaed

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

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COVERING EUROSIX-LAN

| Essential characteristics   | Performance   | Harmonised technical<br>specification                       |
|---|---|---|
| Mechanical resistance:<br>Tensile strength<br>Bending moment                      | Classe I<br>Classe X  | Punto 5.3.3 – UNI EN 494<br>(not applicable to accessories) |
| Resistance to impact  | Conforms  | ACR [M] 001: 2005<br>(not applicable to accessories)        |
| External fire performance   | B roof  | 5.6.1- UNI EN 494<br>(not applicable to accessories)        |
| Reaction to fire  | Classe 1  | BS 476/7  |
| Water permeability  | Conforms  | 5.3.4 – UNI EN 494<br>(not applicable to accessories)       |
| Dimensional characteristics:<br>Width:<br>Thickness:<br>Step wave:<br>Depth wave: | mm 1086 -5 +10<br>mm 6,5 ± 0,6<br>mm 146,5 ± 2<br>mm 47,6 ± 3 | 5.2.4 – UNI EN 494  |
| Durability hot water  | R <sub>L</sub> > 0,70   | 5.4.4- UNI EN 494<br>(not applicable to accessories)        |
| Durability immersion / drying   | R <sub>L</sub> > 0,70   | 5.4.5- UNI EN 494<br>(not applicable to accessories)        |
| Durability to freeze-thaw   | R <sub>L</sub> > 0,70   | 5.4.2- UNI EN 494<br>(not applicable to accessories)        |
| Durability to sun-rain  | Conforms  | 5.4.3- UNI EN 494<br>(not applicable to accessories)        |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini 5.p.a.

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## 3.2. Metal Roofing LAGRECA

### 3.2.1. Profile H21 made of Galvanized natural steel



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati ar Va Eurono Curiel, 27/A - 42024 CASTEL XOVO SOTTO (Record Emilia)-

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H2IACZN

### DECLARATION OF PERFORMANCE (DOP) Nº 01-G-EN

 Unique identification code of the product-type: LAGRECA-H21ACZN (Galvanized natural steel)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H21ACZN

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacture:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

(name and identification number of the notified body, if relevant)
performed \_\_\_\_\_\_\_\_ under system (description of the third party tasks as set out in Annex V)
and issued \_\_\_\_\_\_\_. (certificate of constancy of performance, certificate of conformity of the factory production control,
test/calculation reports - as relevant)
Not Applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

(name and identification number of the Technical Assessment Body, if relevant) issued. (reference number of the European Technical Assessment) on the basis of, (reference number of the European Assessment Document) performed\_\_\_\_\_\_\_\_under system. (description of the third party tasks as set out in Annex V)

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H2LACZN

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

#### 9. Declared performance

| Essential characteristics                        | Performance  | Harmonised technical<br>specification |
|--|--|---------------------------------------|
| Type of metal                                    | Galvanized natural steel<br>S250 GD Z 200  | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness                                | Minimum nominal thickness 0,4 mm<br>Class 1  | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance                            | Geometry of the product cross-section (ref. current<br>catalogue)<br>H21/985 with 12 pitches of 75 mm and net width of<br>900 mm<br>H21/1187 with 15 pitches di 75 mm and net width of<br>1125 mm  |                                       |
| -  | Dimensional tolerances   | UNI EN 508-1 - UNI EN 10346           |
| Watar pormashilib                                | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       2,52 ml         Thickness 6/10 mm       3,24 ml         Thickness 7/10 mm       3,87 ml         Thickness 8/10 mm       5,76 ml         Waterreef       5,76 ml | Annex B UNI EN 14782                  |
| Water permeability                               | Waterproof   |                                       |
| Vapour and air permeability Air and vapour proof |  |                                       |
| Dimensional change                               | Coefficient of steel thermal expansion - 12 x 10° C <sup>-1</sup>  |                                       |
| Durability                                       | To be assessed in according to the use   |                                       |
| Reaction to fire                                 | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance                        | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a.

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### 3.2.2. Profile H21 made of Prepainted Galvanized steel



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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H2IACZP

DECLARATION OF PERFORMANCE (DOP)

#### Nº 02-G-EN

1. Unique identification code of the product-type: LAGRECA-H21ACZP (Prepainted Galvanized steel)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H21ACZP

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

mm.idnamapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

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Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                              | n number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                            |
|--|--|---|
| and issued<br>test/calculation reports |  | f constancy of performance, certificate of conformity of the factory production control |
| Not Applicable                         |  |   |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment liseased        | Body, if relevant) |
|---|--------------------|
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | under system.      |

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H2IACZP

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

### Not Applicable

### 9. Declared performance

| ssential characteristics    | Performance  | Harmonised technical<br>specification |
|-----------------------------|--|---------------------------------------|
| Type of metal               | Prepainted galvanized steel<br>S250 GD Z150 Side 1: Polyester 18/20 µm - Side 2:<br>primer 5/7 µm  | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1  | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H21/985 with 12 pitches of 75 mm and net width of<br>900 mm<br>H21/1187 with 15 pitches di 75 mm and net width of<br>1125 mm  |                                       |
|                             | Dimensional tolerances   | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       2,52 ml         Thickness       5/10 mm       3,24 ml         Thickness       7/10 mm       3,87 ml         Thickness       8/10 mm       4,50 ml         Thickness       8/10 mm       5,76 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof   |                                       |
| Vapour and air permeability | Air and vapour proof   | 6                                     |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10° C'   |                                       |
| Durability                  | To be assessed in according to the use   | Sector restorements and and           |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini y.p.a.

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#### Profile H21 made of Natural aluminium 3.2.3.



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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H2IALNA

DECLARATION OF PERFORMANCE (DOP)

#### Nº 03-G-EN

. Unique identification code of the product-type: LAGRECA-H21ALNA (Natural aluminium) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H21ALNA

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified body<br>under system | (description of the third party tasks as set out in Annex V)                           |
|--|---|--|
| and issued<br>test/calculation reports - |   | constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |   |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, if a<br>issued  | levant) |
|---|---------|
| (reference number of the European Technical Assessment)<br>on the basis of,       |         |
| (reference number of the European Assessment Document)                            |         |
| performedunder sy<br>(description of the third party tasks as set out in Annex V) | stem.   |

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H2IALNA

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

#### 9. Declared performance

| Essential characteristics                         | specification   |   |
|---|---|---|
| Type of metal                                     | Natural aluminium<br>Alloy 3003/3103/3105 H16 - H18   | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |
| Nominal thickness                                 | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application  | UNI EN 14782 - UNI EN 485-4                   |
| Mechanical resistance                             | Geometry of the product cross-section (ref. current<br>catalogue)<br>H21/985 with 12 pitches of 75 mm and net width of<br>900 mm<br>H21/1187 with 15 pitches di 75 mm and net width of<br>1125 mm   |   |
|   | Dimensional tolerances  | UNI EN 508-2 - UNI EN 485-4                   |
| Watar pormashility                                | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       1,08 ml         Thickness 6/10 mm       1,53 ml         Thickness 7/10 mm       1,89 ml         Thickness 10/10 mm       2,25 ml         Thickness 10/10 mm       3,06 ml         Waterproof       3,06 ml | Annex B UNI EN 14782                          |
| Water permeability<br>Vapour and air permeability | Air and vapour proof  | 39  |
| Dimensional change                                | Coefficient of aluminium thermal expansion – 23,6 x<br>10 <sup>6</sup> C <sup>-1</sup>  | С.<br>Г                                       |
| Durability  | To be assessed in according to the use  |   |
| Reaction to fire                                  | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |
| External fire performance                         | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |

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10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4, Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a.

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## 3.2.4. Profile H21 made of Prepainted aluminium



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



HILLPR

Pag. 1/2

DECLARATION OF PERFORMANCE (DOP)

#### Nº 04-G-EN

 Unique identification code of the product-type: LAGRECA-H21ALPR (Prepainted aluminium)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H21ALPR

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.tarkimapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| (nume and identification num<br>performed ut                    | ider system | 이 가 많은 것 같은 것이다. 가만 집에 집에 있는 것이 있는 것 같은 것이 가지 않는 것이 있는 것이 가지 않는 것이 같이 많이 있다. 것이 같이 있는 것이 같이 있는 것이 같이 있는 것이 같이 있다. 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 없다. 것이 있는 것이 있는 것이 없는 것이 없는 것이 없다. 것이 있는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 않는 것이 없는 것이 없 않 않는 것이 않이 않는 것이 않이 않이 않는 것이 않이 않는 것이 않이 않는 것이 않이 |
|---|-------------|---|
| and issued<br>test/calculation reports - as a<br>Not Applicable |             | f constancy of performance, certificate of conformity of the factory production control,  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| elevant) |
|----------|
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|          |
| olem.    |
|          |

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HILLPR

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification         |  |
|-----------------------------|---|---|--|
| Type of metal               | Prepainted aluminium<br>Alloy 3003/3103/3105 H46 - H48 Side 1: Polyester<br>18/20 µm - Side 2: primer 5/7 µm  | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |  |
| Nominal thickness           | Minimum nominal thickness 0,6 mm - roofing<br>application<br>Minimum nominal thickness 0,4 mm - other<br>application  | UNI EN 14782 – UNI EN 485-4                   |  |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H21/985 with 12 pitches of 75 mm and net width of<br>900 mm<br>H21/1187 with 15 pitches di 75 mm and net width of<br>1125 mm   |   |  |
|                             | Dimensional tolerances  | UNI EN 508-2 - UNI EN 485-4                   |  |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       1,08 ml         Thickness 6/10 mm       1,53 ml         Thickness 8/10 mm       2,25 ml         Thickness 10/10 mm       3,06 ml | Annex B UNI EN 14782                          |  |
| Water permeability          | Waterproof  |   |  |
| Vapour and air permeability | Air and vapour proof  |   |  |
| Dimensional change          | Coefficient of aluminium thermal expansion – 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>   |   |  |
| Durability                  | To be assessed in according to the use  | hanna ann an a     |  |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a.

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### 3.2.5. Profile H21 made of Natural aluzinc



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHEn. 16141 Cod. Ris. e Pat. M. 0127640356



H21ALZN

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DECLARATION OF PERFORMANCE (DOP)

#### Nº 05-G-EN

1. Unique identification code of the product-type: LAGRECA-H21ALZN (Natural aluzinc)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H21ALZN

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.iandinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, it        | f relevant) |
|---|-------------|
| issued  |             |
| (reference number of the European Technical Assessment)<br>on the basis of, |             |
| (reference number of the European Assessment Document)                      |             |
|   | r system.   |
| (description of the third party tasks as set out in Annex V)                |             |

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H21ALZN

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

### Not Applicable

### 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Natural aluzinc<br>S250 GD AZ150 - AZ185  | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H21/985 with 12 pitches of 75 mm and net width of<br>900 mm<br>H21/1187 with 15 pitches di 75 mm and net width of<br>1125 mm   |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       2,52 ml         Thickness 6/10 mm       3,24 ml         Thickness 7/10 mm       3,87 ml         Thickness 8/10 mm       4,50 ml         Thickness 10/10 mm       5,76 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  |                                       |
| Vapour and air permeability | Air and vapour proof  | 8                                     |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10° C <sup>-1</sup>   | Ś.                                    |
| Durability                  | To be assessed in according to the use  |                                       |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a.

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### 3.2.6. Profile H21 made of INOX 204 2B



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



H2IINOX

DECLARATION OF PERFORMANCE (DOP)

#### Nº 06-G-EN

1. Unique identification code of the product-type: LAGRECA-H21INOX (INOX)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H21INOX

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.iaribinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

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Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                              | n number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                            |
|--|--|---|
| and issued<br>test/calculation reports |  | f constancy of performance, certificate of conformity of the factory production control |
| Not Applicable                         |  |   |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, i<br>issued  | if ælevant) |
|--|-------------|
| (reference number of the European Technical Assessment)<br>on the basis of,    |             |
| (reference number of the European Assessment Document)                         |             |
| performed unde<br>(description of the third party tasks as set out in Annex V) | r system.   |

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H21INOX

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

### Not Applicable

### 9. Declared performance

| Essential characteristics   | Performance  | Harmonised technical<br>specification        |
|-----------------------------|--|--|
| Type of metal               | INOX<br>AISI 304 2B: X5 CrNi 18 10 + 2B - 1.4301 + 2B  | UNI EN 508-3 - UNI EN 9445-2<br>UNI/EN 10088 |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1  | UNI EN 14782 - UNI EN 9445-2                 |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H21/985 with 12 pitches of 75 mm and net width of<br>900 mm   |  |
|                             | Dimensional tolerances   | UNI EN 508-3 - UNI EN 9445-2                 |
| Water permeability          | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       2,52 ml         Thickness       5/10 mm       3,24 ml         Thickness       7/10 mm       3,87 ml         Thickness       8/10 mm       4,50 ml         Waterproof       Waterproof | Annex B UNI EN 14782                         |
| Vapour and air permeability | Air and vapour proof   |  |
| Dimensional change          | Coefficient of stainless steel thermal expansion 17 x<br>10 <sup>6</sup> C <sup>-1</sup>   |  |
| Durability                  | To be assessed in according to the use   |  |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)         |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)         |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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## 3.2.7. Profile H28 made of Galvanized natural steel



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



H28ACZN

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DECLARATION OF PERFORMANCE (DOP)

#### Nº 21-G-EN

 Unique identification code of the product-type: LAGRECA-H28ACZN (Galvarized natural steel)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H28ACZN

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com were fundinisma.com

www.landinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501) 4

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

| performed un  | der system | (description of the third party tasks as set out in Annex V)                             |
|---|------------|--|
| and issued<br>test/calculation reports - as a<br>Not Applicable |            | of constancy of performance, certificate of conformity of the factory production control |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment issued          | Body, if relevant) |
|---|--------------------|
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | under system.      |

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H2SACZN

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

### Not Applicable

### 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Galvanized natural steel<br>S250 GD Z 200   | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H28/1021 with 8 pitches of 112 mm and net width of<br>896 mm<br>H28/1127 with 9 pitches of 112 mm and net width of<br>1008 mm<br>H28/1231 with 10 pitches of 112 mm and net width of<br>1120 mm  |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       2,16 ml         Thickness 6/10 mm       2,88 ml         Thickness 7/10 mm       3,60 ml         Thickness 8/10 mm       4,41 ml         Thickness 10/10 mm       5,85 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  | 2                                     |
| Vapour and air permeability | Air and vapour proof  |                                       |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10° C'  | 6                                     |
| Durability                  | To be assessed in according to the use  | Q                                     |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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### 3.2.8. Profile H28 made of Prepainted Galvanized steel



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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H28ACZP

DECLARATION OF PERFORMANCE (DOP)

#### Nº 22-G-EN

1. Unique identification code of the product-type: LAGRECA-H28ACZP (Prepainted Galvanized steel)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H28ACZP

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.iandinispa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment                 | Body, if relevant) |
|---|--------------------|
| issued  |                    |
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | _ under system.    |

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H28ACZP

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |  |
|-----------------------------|---|---------------------------------------|--|
| Type of metal               | Prepainted galvanized steel<br>S250 GD Z150 Side 1: Polyester 18/20 µm - Side 2:<br>primer 5/7 µm   | UNI EN 508-1 - UNI EN 10346           |  |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |  |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H28/1021 with 8 pitches of 112 mm and net width of<br>896 mm<br>H28/1127 with 9 pitches of 112 mm and net width of<br>1008 mm<br>H28/1231 with 10 pitches of 112 mm and net width of<br>1120 mm  |                                       |  |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |  |
|                             | Resistance of roofing materials to concentrated<br>forces. It represents the maximum span to which the<br>sheet withstands without global collapse at the<br>indicated load and applied in accordance with the<br>regulation<br>Thickness 5/10 mm 2,16 ml<br>Thickness 6/10 mm 2,88 ml<br>Thickness 7/10 mm 3,60 ml | Annex B UNI EN 14782                  |  |
|                             | Thickness 8/10 mm 4.41 ml   |                                       |  |
|                             | Thickness 10/10 mm 5.85 ml  |                                       |  |
| Water permeability          | Waterproof  |                                       |  |
| Vapour and air permeability | Air and vapour proof  | <u>.</u>                              |  |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10° C <sup>-1</sup>   | ð                                     |  |
| Durability                  | To be assessed in according to the use  | 5                                     |  |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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# 3.2.9. Profile H28 made of Natural aluminium



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H28ALNA

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DECLARATION OF PERFORMANCE (DOP)

### Nº 23-G-EN

. Unique identification code of the product-type: LAGRECA-H28ALNA (Natural aluminium) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H28ALNA

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, if rele             | vani) |
|---|-------|
| issued<br>(reference number of the European Technical Assessment)<br>on the basis of, |       |
| (reference number of the European Assessment Document)                                |       |
| performed under syst<br>(description of the third party tasks as set out in Annex V)  | em.   |

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H28ALNA

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification         |
|-----------------------------|---|---|
| Type of metal               | Natural aluminium<br>Alloy 3003/3103/3105 H16 - H18   | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |
| Nominal thickness           | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application  | UNI EN 14782 - UNI EN 485-4                   |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H28/1021 with 8 pitches of 112 mm and net width of<br>896 mm<br>H28/1127 with 9 pitches of 112 mm and net width of<br>1008 mm<br>H28/1231 with 10 pitches of 112 mm and net width of<br>1120 mm  |   |
|                             | Dimensional tolerances  | UNI EN 508-2 - UNI EN 485-4                   |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       0,90 ml         Thickness       5/10 mm       1,44 ml         Thickness       7/10 mm       1,89 ml         Thickness       8/10 mm       2,43 ml         Thickness       100 mm       3,42 ml | Annex B UNI EN 14782                          |
| Water permeability          | Waterproof  |   |
| Vapour and air permeability | Air and vapour proof  |   |
| Dimensional change          | Coefficient of aluminium thermal expansion – 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>   |   |
| Durability                  | To be assessed in according to the use  |   |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

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# 3.2.10. Profile H28 made of Prepainted aluminium



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



H28ALPR

DECLARATION OF PERFORMANCE (DOP)

### Nº 24-G-EN

1. Unique identification code of the product-type: LAGRECA-H28ALPR (Prepainted aluminium)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H28ALPR

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.tartuiniapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Pag. 1/2

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, if re-<br>issued | levant) |
|--|---------|
| (reference number of the European Technical Assessment)<br>on the basis of,        |         |
| (reference number of the European Assessment Document)                             |         |
| performed under sy<br>(description of the third party tasks as set out in Annex V) | skem.   |

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Sede: Via Eugenio Curiei, 27/A- 42024 CASTELNOVO SOTTO (Reggio Emilia)- Italy C.C.LAA. di R.E.n. 173046-- Reg. Soc. Titl. di R.E.n. 16414 Cod. Rim. e Part. NA 01274640366

H28ALPR

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant) Not Applicable

9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification         |  |
|-----------------------------|---|---|--|
| Type of metal               | Prepainted aluminium<br>Alloy 3003/3103/3105 H46 - H48 Side 1: Polyester<br>18/20 µm - Side 2: primer 5/7 µm  | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |  |
| Nominal thickness           | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application  | UNI EN 14782 – UNI EN 485-4                   |  |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H28/1021 with 8 pitches of 112 mm and net width of<br>896 mm<br>H28/1127 with 9 pitches of 112 mm and net width of<br>1008 mm<br>H28/1231 with 10 pitches of 112 mm and net width of<br>1120 mm  |   |  |
|                             | Dimensional tolerances  | UNI EN 508-2 - UNI EN 485-4                   |  |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       0,90 ml         Thickness 6/10 mm       1,44 ml         Thickness 7/10 mm       1,89 ml         Thickness 8/10 mm       2,43 ml         Thickness 10/10 mm       3,42 ml | Annex B UNI EN 14782                          |  |
| Water permeability          | Waterproof  |   |  |
| Vapour and air permeability | Air and vapour proof  | 8   |  |
| Dimensional change          | Coefficient of aluminium thermal expansion - 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>   |   |  |
| Durability                  | To be assessed in according to the use  |   |  |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a

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# 3.2.11. Profile H28 made of Natural aluzinc



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



H28ALZN

DECLARATION OF PERFORMANCE (DOP)

### Nº 25-G-EN

1. Unique identification code of the product-type: LAGRECA-H28ALZN (Natural aluzinc)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H28ALZN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

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 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Pag. 1/2

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body<br>issued   | y, if relevant) |
|--|-----------------|
| (reference number of the European Technical Assessment)<br>on the basis of,  |                 |
| (reference number of the European Assessment Document)                       |                 |
| performed un<br>(description of the third party tasks as set out in Annex V) | der system.     |

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H28ALZN

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Natural aluzinc<br>S250 GD AZ150 - AZ185  | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H28/1021 with 8 pitches of 112 mm and net width of<br>896 mm<br>H28/1127 with 9 pitches of 112 mm and net width of<br>1008 mm<br>H28/1231 with 10 pitches of 112 mm and net width of<br>1120 mm  |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       2,16 ml         Thickness 5/10 mm       2,88 ml         Thickness 7/10 mm       3,60 ml         Thickness 8/10 mm       4,41 ml         Thickness 10/10 mm       5,85 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  |                                       |
| Vapour and air permeability | Air and vapour proof  | 2                                     |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10° C <sup>-1</sup>   |                                       |
| Durability                  | To be assessed in according to the use  |                                       |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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#### Profile H28 made of INOX 204 2B 3.2.12.



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Sada: Via Eugenio Curiei, 27/A - 42024 CASTELNOVO SOTTO (Raggio Emilia) - Italy C.C.LAA, di R.E.n. 173045 - Rag. Soc. Trib. di R.E.n. 16414 Cod. Rim. e Part. WA 01274640366



H28INOX

DECLARATION OF PERFORMANCE (DOP)

# Nº 26-G-EN

. Unique identification code of the product-type: LAGRECA-H28INOX (INOX) 1. Uni

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H28INOX

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified hod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment<br>issued       | Body, if relevant) |
|---|--------------------|
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | under system.      |

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H28INOX

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification        |
|-----------------------------|---|--|
| Type of metal               | INOX<br>AISI 304 2B: X5 CrNi 18 10 + 2B - 1.4301 + 2B   | UNI EN 508-3 - UNI EN 9445-2<br>UNI/EN 10088 |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 9445-2                 |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H28/1021 with 8 pitches of 112 mm and net width of<br>896 mm   |  |
|                             | Dimensional tolerances  | UNI EN 508-3 - UNI EN 9445-2                 |
| Water permeability          | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       2,16 ml         Thickness 6/10 mm       2,88 ml         Thickness 8/10 mm       3,60 ml         Thickness 8/10 mm       4,41 ml         Waterproof | Annex B UNI EN 14782                         |
| Vapour and air permeability | Air and vapour proof  |  |
| Dimensional change          | Coefficient of stainless steel thermal expansion 17 x 10 <sup>6</sup> C <sup>1</sup>  |  |
| Durability                  | To be assessed in according to the use  | 1  |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)         |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)         |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

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#### Profile H40 made of Galvanized natural steel 3.2.13.



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H40ACZN

DECLARATION OF PERFORMANCE (DOP)

### Nº 41-G-EN

. Unique identification code of the product-type: LAGRECA-H40ACZN (Galvarized natural steel) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40ACZN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Pag. 1/2

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, it<br>issued  | f relevant) |
|---|-------------|
| (reference number of the European Technical Assessment)<br>on the basis of,     |             |
| (reference number of the European Assessment Document)                          |             |
| performed under<br>(description of the third party tasks as set out in Annex V) | system.     |

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H40ACZN

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Galvanized natural steel<br>S250 GD Z 200   | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1042 with 5 pitches of 196 mm and net width of<br>980 mm   |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       1,80 ml         Thickness       6/10 mm       2,34 ml         Thickness       7/10 mm       2,88 ml         Thickness       8/10 mm       3,42 ml         Thickness       100 mm       4,41 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  | 5                                     |
| Vapour and air permeability | Air and vapour proof  |                                       |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10 <sup>-6</sup> C <sup>-1</sup>  |                                       |
| Durability                  | To be assessed in according to the use  |                                       |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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#### Profile H40 made of Prepainted Galvanized steel 3.2.14.



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H40ACZP

DECLARATION OF PERFORMANCE (DOP)

### Nº 42-G-EN

. Unique identification code of the product-type: LAGRECA-H40ACZP (Prepainted Galvanized steel)

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40ACZP

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

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5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Pag. 1/2

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assess<br>issued         | ment Body, if relevant) |
|---|-------------------------|
| (reference number of the European Technical Assessmen<br>on the basis of, |                         |
| (reference number of the European Assessment Documer                      |                         |
| performed<br>(description of the third party tasks as set out in Annex V  | under system.           |

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H40ACZP

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance  | Harmonised technical<br>specification |
|-----------------------------|--|---------------------------------------|
| Type of metal               | Prepainted galvanized steel<br>S250 GD Z150 Side 1: Polyester 18/20 µm - Side 2:<br>primer 5/7 µm  | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1  | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1042 with 5 pitches of 196 mm and net width of<br>980 mm  |                                       |
|                             | Dimensional tolerances   | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       1,80 ml         Thickness       5/10 mm       2,34 ml         Thickness       7/10 mm       2,88 ml         Thickness       8/10 mm       3,42 ml         Thickness       10 mm       4,41 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof   |                                       |
| Vapour and air permeability | Air and vapour proof   |                                       |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10 <sup>6</sup> C <sup>-1</sup>  |                                       |
| Durability                  | To be assessed in according to the use   |                                       |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a. SIN

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# 3.2.15. Profile H40 made of Natural aluminium



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



H49ALNA

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DECLARATION OF PERFORMANCE (DOP)

### Nº 43-G-EN

1. Unique identification code of the product-type: LAGRECA-H40ALNA (Natural aluminium)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H40ALNA

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.iaruinapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                            |
|--|--|---|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control |
| Not Applicable                           |  |   |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body,<br>issued     | if ælevant) |
|---|-------------|
| (reference number of the European Technical Assessment)<br>on the basis of,     |             |
| (reference number of the European Assessment Document)                          |             |
| performed under<br>(description of the third party tasks as set out in Annex V) | er system.  |

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H49ALNA

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification         |
|-----------------------------|---|---|
| Type of metal               | Natural aluminium<br>Alloy 3003/3103/3105 H16 - H18   | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |
| Nominal thickness           | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application  | UNI EN 14782 - UNI EN 485-4                   |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1042 with 5 pitches of 196 mm and net width of<br>980 mm   |   |
|                             | Dimensional tolerances  | UNI EN 508-2 - UNI EN 485-4                   |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       0,54 ml         Thickness 6/10 mm       0,81 ml         Thickness 7/10 mm       1,08 ml         Thickness 10/10 mm       1,89 ml | Annex B UNI EN 14782                          |
| Water permeability          | Waterproof  |   |
| Vapour and air permeability | Air and vapour proof  | 6   |
| Dimensional change          | Coefficient of aluminium thermal expansion – 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>   |   |
| Durability                  | To be assessed in according to the use  |   |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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#### Profile H40 made of Prepainted aluminium 3.2.16.



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H40ALPR

DECLARATION OF PERFORMANCE (DOP)

### Nº 44-G-EN

. Unique identification code of the product-type: LAGRECA-H40ALPR (Prepainted aluminium) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40ALPR

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment                 | Body, if relevant) |
|---|--------------------|
| issued  |                    |
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | _ under system.    |

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H40ALPR

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification         |
|-----------------------------|---|---|
| Type of metal               | Prepainted aluminium<br>Alloy 3003/3103/3105 H46 - H48 Side 1: Polyester<br>18/20 µm - Side 2: primer 5/7 µm  | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |
| Nominal thickness           | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application  | UNI EN 14782 – UNI EN 485-4                   |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1042 with 5 pitches of 196 mm and net width of<br>980 mm   |   |
|                             | Dimensional tolerances  | UNI EN 508-2 - UNI EN 485-4                   |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       0,54 ml         Thickness 6/10 mm       0,81 ml         Thickness 7/10 mm       1,08 ml         Thickness 8/10 mm       1,35 ml         Thickness 10/10 mm       1,89 ml | Annex B UNI EN 14782                          |
| Water permeability          | Waterproof  |   |
| Vapour and air permeability | Air and vapour proof  | 8   |
| Dimensional change          | Coefficient of aluminium thermal expansion – 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>   |   |
| Durability                  | To be assessed in according to the use  |   |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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#### Profile H40 made of Natural aluzinc 3.2.17.



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Sada: Via Eugenio Curiei, 27/A - 42024 CASTELNOVO SOTTO (Raggio Emilia) - Italy C.C.LAA, di R.E.n. 173045 - Rag. Soc. Trib. di R.E.n. 16414 Cod. Rim. e Part. WA 01274640366



H40ALZN

DECLARATION OF PERFORMANCE (DOP)

### Nº 45-G-EN

. Unique identification code of the product-type: LAGRECA-H40ALZN (Natural aluzinc) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40ALZN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, if re-<br>issued | levant) |
|--|---------|
| (reference number of the European Technical Assessment)<br>on the basis of,        |         |
| (reference number of the European Assessment Document)                             |         |
| performed under sy<br>(description of the third party tasks as set out in Annex V) | stem.   |

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H40ALZN

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Natural aluzinc<br>S250 GD AZ150 - AZ185  | UNI EN 508-1 - UNI EN<br>10346        |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN<br>10346        |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1042 with 5 pitches of 196 mm and net width of<br>980 mm   |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN<br>10346        |
|                             | Resistance of roofing materials to concentrated forces.         It represents the maximum span to which the sheet         withstands without global collapse at the indicated load         and applied in accordance with the regulation         Thickness 5/10 mm       1,80 ml         Thickness 6/10 mm       2,34 ml         Thickness 7/10 mm       2,88 ml         Thickness 8/10 mm       3,42 ml         Thickness 10/10 mm       4,41 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  | -                                     |
| Vapour and air permeability | Air and vapour proof  |                                       |
| Dimensional change          | Coefficient of steel thermal expansion – 12 x 10 <sup>-6</sup> C <sup>-1</sup>  | Ċ.                                    |
| Durability                  | To be assessed in according to the use  | <i>).</i>                             |
| Reaction to fire            | A1 - (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a.

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#### Profile H40 made of INOX 204 2B 3.2.18.



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H40INOX

DECLARATION OF PERFORMANCE (DOP)

# Nº 46-G-EN

. Unique identification code of the product-type: LAGRECA-H40INOX (INOX) 1. Uni

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40INOX

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment issued          | Body, if relevant) |
|---|--------------------|
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | _ under system.    |

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H40INOX

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance  | Harmonised technical<br>specification        |
|-----------------------------|--|--|
| Type of metal               | INOX<br>AISI 304 2B: X5 CrNi 18 10 + 2B - 1.4301 + 2B  | UNI EN 508-3 - UNI EN 9445-2<br>UNI/EN 10088 |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1  | UNI EN 14782 - UNI EN 9445-2                 |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1042 with 5 pitches of 196 mm and net width of<br>980 mm  |  |
|                             | Dimensional tolerances   | UNI EN 508-3 - UNI EN 9445-2                 |
| Water permeability          | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       1,80 ml         Thickness       5/10 mm       2,34 ml         Thickness       7/10 mm       2,88 ml         Thickness       8/10 mm       3,42 ml         Waterproof       Materproof | Annex B UNI EN 14782                         |
| Vapour and air permeability | Air and vapour proof   | 1  |
| Dimensional change          | Coefficient of stainless steel thermal expansion 17 x<br>10 <sup>6</sup> C <sup>1</sup>  |  |
| Durability                  | To be assessed in according to the use   |  |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)         |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)         |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a. QAN

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#### Profile H40N made of Galvanized natural steel 3.2.19.



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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H40NA CZN

DECLARATION OF PERFORMANCE (DOP)

### Nº 61-G-EN

. Unique identification code of the product-type: LAGRECA-H40NACZN (Galvanized natural steel) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40NACZN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified bod<br>under system | 이는 것을 많은 것을 가장에 가장에서 한 것을 알았는 것을 갖추는 것을               |
|--|--|---|
| and issued<br>test/calculation reports - |  | of constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |   |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment B<br>issued     | ody, if relevant) |
|---|-------------------|
| (reference number of the European Technical Assessment)<br>on the basis of, | 1                 |
| (reference number of the European Assessment Document)                      |                   |
| performed<br>(description of the third party tasks as set out in Annex V)   | under system.     |

# DoP 61-G-EN H40NACZN.doc

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HADNACZN

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Galvanized natural steel<br>S250 GD Z 200   | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1047 with 4 pitches of 250 mm and net width of<br>1000 mm  |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       2,07 ml         Thickness       6/10 mm       2,61 ml         Thickness       7/10 mm       3,15 ml         Thickness       8/10 mm       3,60 ml         Thickness       100 mm       3,60 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  | 5                                     |
| Vapour and air permeability | Air and vapour proof  |                                       |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10 <sup>-6</sup> C <sup>-1</sup>  |                                       |
| Durability                  | To be assessed in according to the use  |                                       |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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# 3.2.20. Profile H40N made of in Prepainted Galvanized steel



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati





H40NA CZP

DECLARATION OF PERFORMANCE (DOP)

### Nº 62-G-EN

 Unique identification code of the product-type: LAGRECA-H40NACZP (Prepainted Galvanized steel)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H40NACZP

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.iaitumapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

| performed                              | n number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                         |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body, if released      | evani) |
|--|--------|
| (reference number of the European Technical Assessment)<br>on the basis of,        |        |
| (reference number of the European Assessment Document)                             |        |
| performedunder sys<br>(description of the third party tasks as set out in Annex V) | kem.   |

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HANACZP

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as nelevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Prepainted galvanized steel<br>S250 GD Z150 Side 1: Polyester 18/20 µm - Side 2:<br>primer 5/7 µm   | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1047 with 4 pitches of 250 mm and net width of<br>1000 mm  |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       2,07 ml         Thickness       5/10 mm       2,61 ml         Thickness       7/10 mm       3,15 ml         Thickness       8/10 mm       3,60 ml         Thickness       10/10 mm       4,59 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  | ś                                     |
| Vapour and air permeability | Air and vapour proof  |                                       |
| Dimensional change          | Coefficient of steel thermal expansion – 12 x 10 <sup>-6</sup> C <sup>-1</sup>  |                                       |
| Durability                  | To be assessed in according to the use  |                                       |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

Landini s.p.a.

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#### Profile H40N made of Natural aluminium 3.2.21.



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati



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H40NALNA

DECLARATION OF PERFORMANCE (DOP)

### Nº 63-G-EN

. Unique identification code of the product-type: LAGRECA-H40NALNA (Natural aluminium) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40NALNA

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                              | n number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                           |
|--|--|--|
| and issued<br>test/calculation reports |  | f constancy of performance, certificate of conformity of the factory production contro |
| Not Applicable                         |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessmen                  | t Body, if relevant) |
|---|----------------------|
| issued  |                      |
| (reference number of the European Technical Assessment)<br>on the basis of, |                      |
| (reference number of the European Assessment Document)                      |                      |
| performed<br>(description of the third party tasks as set out in Annex V)   | under system.        |

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H40NALNA

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance  | Harmonised technical<br>specification         |
|-----------------------------|--|---|
| Type of metal               | Natural aluminium<br>Alloy 3003/3103/3105 H16 - H18  | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |
| Nominal thickness           | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application   | UNI EN 14782 - UNI EN 485-4                   |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1047 with 4 pitches of 250 mm and net width of<br>1000 mm   |   |
|                             | Dimensional tolerances   | UNI EN 508-2 - UNI EN 485-4                   |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness 5/10 mm       0,63 ml         Thickness 6/10 mm       0,90 ml         Thickness 7/10 mm       1,26 ml         Thickness 8/10 mm       1,53 ml         Thickness 8/10 mm       1,58 ml | Annex B UNI EN 14782                          |
| Water permeability          | Waterproof   |   |
| Vapour and air permeability | Air and vapour proof   | 8   |
| Dimensional change          | Coefficient of aluminium thermal expansion – 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>  |   |
| Durability                  | To be assessed in according to the use   |   |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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# 3.2.22. Profile H40N made of Prepainted aluminium



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16414 COOL HIEL @ Part. MA 01274640396

HAONALPR

DECLARATION OF PERFORMANCE (DOP)

# Nº 64-G-EN

1. Unique identification code of the product-type: LAGRECA-H40NALPR (Prepainted aluminium)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H40NALPR

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.ianainiapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard

| performed                                | number of the notified hod<br>under system | (description of the third party tasks as set out in Annex V)                             |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment Body,<br>issued  | if ælevant) |
|--|-------------|
| (reference number of the European Technical Assessment)<br>on the basis of,  |             |
| (reference number of the European Assessment Document)                       |             |
| performed under (description of the third party tasks as set out in Annex V) | er system.  |

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H40NALPR

and issued.

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance  | Harmonised technical<br>specification         |
|-----------------------------|--|---|
| Type of metal               | Prepainted aluminium<br>Alloy 3003/3103/3105 H46 - H48 Side 1: Polyester<br>18/20 µm - Side 2: primer 5/7 µm   | UNI EN 508-2 - UNI EN 485-4 -<br>UNI EN 573-3 |
| Nominal thickness           | Minimum nominal thickness 0,6 mm – roofing<br>application<br>Minimum nominal thickness 0,4 mm – other<br>application   | UNI EN 14782 – UNI EN 485-4                   |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1047 with 4 pitches of 250 mm and net width of<br>1000 mm   |   |
|                             | Dimensional tolerances   | UNI EN 508-2 - UNI EN 485-4                   |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       0,63 ml         Thickness       6/10 mm       0,90 ml         Thickness       7/10 mm       1,26 ml         Thickness       8/10 mm       1,89 ml | Annex B UNI EN 14782                          |
| Water permeability          | Waterproof   |   |
| Vapour and air permeability | Air and vapour proof   | 8   |
| Dimensional change          | Coefficient of aluminium thermal expansion - 23,6 x<br>10 <sup>6</sup> C <sup>1</sup>  |   |
| Durability                  | To be assessed in according to the use   |   |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)          |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)          |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

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# 3.2.23. Profile H40N made of Natural aluzinc



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Soda: Via Eugeno Curial, 27/A-42024 CASTELNOVO SOTTO (Reggio Emila)- taly CCLAA.dHEn. 17306- Rig. Son. Tab. dHE n. 16141 Cod. Ha: e Pat. M. 0127640356



H40NALZN

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DECLARATION OF PERFORMANCE (DOP)

### Nº 65-G-EN

1. Unique identification code of the product-type: LAGRECA-H40NALZN (Natural aluzinc)

 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): H40NALZN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

www.iaikainapa.com

 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness  $\ge 0.4$  mm with any external coating which is inorganic or has a gross calorific value, PCS  $\le 4.0$  MJ/m2 or a mass  $\le 200$  g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

| (name and identification no<br>performedt   | (description of the third party tasks as set out in Annex V)                             |
|---|--|
| and issued<br>test/calculation reports - as | f constancy of performance, certificate of conformity of the factory production control, |
| Not Applicable                              |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical Assessment B<br>issued     | lody, if relevant) |
|---|--------------------|
| (reference number of the European Technical Assessment)<br>on the basis of, |                    |
| (reference number of the European Assessment Document)                      |                    |
| performed<br>(description of the third party tasks as set out in Annex V)   | under system.      |

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Sada: Via Eugenio Curial, 27/A - 42024 CASTELNOVO SOTTO (Reggio Emilia) -- Italy C.C.I.A.A. di Fien, 173046 -- Reg. Soc. Tab. di Fien, 16414 Cod. Rat. e Part. NA 01274640366

H40NALZN

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance   | Harmonised technical<br>specification |
|-----------------------------|---|---------------------------------------|
| Type of metal               | Natural aluzinc<br>S250 GD AZ 150 – AZ185   | UNI EN 508-1 - UNI EN 10346           |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1   | UNI EN 14782 - UNI EN 10346           |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1047 with 4 pitches of 250 mm and net width of<br>1000 mm  |                                       |
|                             | Dimensional tolerances  | UNI EN 508-1 - UNI EN 10346           |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       2,07 ml         Thickness       6/10 mm       2,61 ml         Thickness       7/10 mm       3,15 ml         Thickness       8/10 mm       3,60 ml         Thickness       10/10 mm       4,59 ml | Annex B UNI EN 14782                  |
| Water permeability          | Waterproof  |                                       |
| Vapour and air permeability | Air and vapour proof  |                                       |
| Dimensional change          | Coefficient of steel thermal expansion - 12 x 10 <sup>-6</sup> C <sup>-1</sup>  |                                       |
| Durability                  | To be assessed in according to the use  |                                       |
| Reaction to fire            | A1 – (CWFT)   | UNI EN 13501-1<br>UNI EN 14782 (5.2)  |
| External fire performance   | "deemed to satisfy without the need for testing"  | UNI EN 13501-5<br>UNI EN 14782 (5.1)  |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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#### Profile H40N made of INOX 204 2B 3.2.24.



Coperture in fibrocemento e metalliche Camini e condotti in acciaio inox Contenitori in polietilene per trattamento acque Canali grigliati Sada: Via Eugenio Curiei, 27/A - 42024 CASTELNOVO SOTTO (Raggio Emilia) - Italy C.C.LAA, di R.E.n. 173045 - Rag. Soc. Trib. di R.E.n. 16414 Cod. Rim. e Part. WA 01274640366



H40NINOX

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DECLARATION OF PERFORMANCE (DOP)

### Nº 66-G-EN

. Unique identification code of the product-type: LAGRECA-H40NINOX (INOX) 1. Un

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Anticle 11(4): H40NINOX

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the

"Self-supporting metal roof sheets and tiles - Intended use: Roof coverings" Tab ZA. 2 - EN 14782

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): LANDINI s.p.a. di Landini Cav. Mirco - Via Eugenio Curiel, 27/A - Castelnovo di Sotto (RE) Tel. 0522 / 688811 - Fax 0522 / 688870 commerciale@landinispa.com www.landinispa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: External roofs with different use than those listed below 4

External roofs subject to reaction to fire regulations

3 (A1...E) 4 (F)

With reference to the UNI EN 14782 regulation, we noted that the metallic materials with non-organic coating or with polyester coating having a maximum nominal thickness of 25 µm and a PCS up to 1 MJ/m2 (included) or a mass ≤ 70 g/m2 are considered to satisfy the requirements for reaction to fire performance Class A1 without further testing in accordance with the relevant Commission Decision

External roofs subject to external fire performance regulations

3 (if must satisfy EN 13501)

Products covered by this European Standard are considered "deemed to satisfy without the need for testing" in relation to the requirements for external fire performance provided that they meet the definitions given in Commission Decision 2000/553/EC, i.e. flat or profiled metal sheets of nominal thickness ≥ 0,4 mm with any external coating which is inorganic or has a gross calorific value, PCS ≤ 4,0 MJ/m2 or a mass ≤ 200 g/m2.

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

| performed                                | number of the notified bod<br>under system | (description of the third party tasks as set out in Annex V)                           |
|--|--|--|
| and issued<br>test/calculation reports - |  | f constancy of performance, certificate of conformity of the factory production contro |
| Not Applicable                           |  |  |

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

| (name and identification number of the Technical As                    | sessment Body, if relevant)  |
|--|--|
| issued   | and the second sec |
| (reference number of the European Technical Assess<br>on the basis of, |  |
| (reference number of the European Assessment Doct                      |  |
| performed  | under system.  |
| (description of the third party tasks as set out in Ann                | ex V)  |

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Sada: Via Eugenio Curial, 27/A- 42024 CASTELNOVO SOTTO (Reggio Emilia)- Italy C.C.I.A.A. di R.E.n. 173046- Rig; Soc. Tab. di R.E.n. 16414 Cod. Ras. e Part. NA 01274540356

H40NINOX

and issued

(certificate of constancy of performance, certificate of conformity of the factory production control, test/calculation reports - as relevant)

# Not Applicable

# 9. Declared performance

| Essential characteristics   | Performance  | Harmonised technical<br>specification        |
|-----------------------------|--|--|
| Type of metal               | INOX<br>AISI 304 2B: X5 CrNi 18 10 + 2B - 1.4301 + 2B  | UNI EN 508-3 - UNI EN 9445-2<br>UNI/EN 10088 |
| Nominal thickness           | Minimum nominal thickness 0,4 mm<br>Class 1  | UNI EN 14782 - UNI EN 9445-2                 |
| Mechanical resistance       | Geometry of the product cross-section (ref. current<br>catalogue)<br>H40/1047 with 4 pitches of 250 mm and net width of<br>1000 mm   |  |
|                             | Dimensional tolerances   | UNI EN 508-3 - UNI EN 9445-2                 |
|                             | Resistance of roofing materials to concentrated forces. It represents the maximum span to which the sheet withstands without global collapse at the indicated load and applied in accordance with the regulation         Thickness       5/10 mm       2,07 ml         Thickness       6/10 mm       2,61 ml         Thickness       8/10 mm       3,15 ml         Thickness       8/10 mm       3,60 ml         Waterproof       Waterproof | Annex B UNI EN 14782                         |
| Vapour and air permeability | Air and vapour proof   |  |
| Dimensional change          | Coefficient of stainless steel thermal expansion 17 x<br>10 <sup>6</sup> C <sup>1</sup>  |  |
| Durability                  | To be assessed in according to the use   |  |
| Reaction to fire            | A1 – (CWFT)  | UNI EN 13501-1<br>UNI EN 14782 (5.2)         |
| External fire performance   | "deemed to satisfy without the need for testing"   | UNI EN 13501-5<br>UNI EN 14782 (5.1)         |

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by

Cav. Mirco Landini - Director

Castelnovo Sotto 01/07/2013

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