

## DECLARATION OF PERFORMANCE

no. **DOPGLO-010**

(Issued under REGULATION (EU) No. 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2011)

1. Unique identification code of the product-type:

**EKOS PLUS**

(EN 442-2:2014 - Annex G – Picture G2 – Die-cast aluminium radiator elements)

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11, paragraph 4:

Model	EKOS PLUS						
	2000	1800	1600	1400	1200	1000	900
Interaxis [mm]	2000	1800	1600	1400	1200	1000	900

**Batch number: SEE PACKAGING.**

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

**Metallic radiators for heating residential buildings, permanently installed. Operation with hot water or steam, heated by a remote heat source, at temperatures below 120°C.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11, paragraph 5:

**GLOBAL di Fardelli Ottorino & C. s.r.l., via Rondinera n° 51, 24060 ROGNO (BG) Italy**

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

**NA**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

**System 3**

7. The type tests in accordance with EN 442 standard were carried out by:

**POLITECNICO DI MILANO – DIPARTIMENTO DI ENERGETICA - Laboratorio Misure Ricerche Termotecniche  
M.R.T. - Notified body number 1695**

The verification of conformity covered:

**Dimensional Sizes, Thermal Output, Tightness and Resistance to Pressure, Pressure Drop**  
under

**System 3**

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

**NA**

## 9. Declared performance

Essential characteristics		Performance								Harmonised technical specification
Reaction to fire		<b>A1</b>								EN 442-1:2014
Release of dangerous substances		<b>None</b>								EN 442-1:2014
Pressure tightness		<b>No leakage at 780 kPa</b>								EN 442-1:2014
Surface temperature		<b>Maximum 120°C</b>								EN 442-1:2014
Max. operating pressure		<b>600 kPa</b>								EN 442-1:2014
Resistance to pressure		<b>No breakage at 1020 kPa</b>								EN 442-1:2014
Rated thermal output	Interaxis	2000	1800	1600	1400	1200	1000	900	EN 442-1:2014	
	$\Phi_{\Delta t 30} =$	<b>99 W</b>	<b>90 W</b>	<b>80 W</b>	<b>72 W</b>	<b>64 W</b>	<b>57 W</b>	<b>53 W</b>		
	$\Phi_{\Delta t 50} =$	<b>196 W</b>	<b>178 W</b>	<b>160 W</b>	<b>143 W</b>	<b>126 W</b>	<b>109 W</b>	<b>101 W</b>		
Thermal output in different operating conditions (characteristic curve)	Characteristic equation	<b><math>\Phi = Km \times \Delta t^n</math></b>								EN 442-1:2014
	<b>Km=</b>	<b>1.06514</b>	<b>0.94330</b>	<b>0.82963</b>	<b>0.78649</b>	<b>0.73725</b>	<b>0.70844</b>	<b>0.68929</b>		
	<b>n=</b>	<b>1.33285</b>	<b>1.33883</b>	<b>1.34480</b>	<b>1.32938</b>	<b>1.31396</b>	<b>1.28835</b>	<b>1.27555</b>		
Durability as:		Resistance against corrosion				No corrosion after 200 hours in humidity test chamber				EN 442-1:2014
		Painting resistance (Cross -cut test)				Class 0				

### Notes to table:

- Column 1 shall contain the list of essential characteristics as determined in the harmonised technical specifications for the intended uses or uses indicated in point 3 above
- For each essential characteristic listed in column 1 and in compliance with the requirements of Article 6, column 2 shall contain the declared performance, expressed by level or class, or in a description, related to the corresponding essential characteristics. The letters "NPD" (No Performance Determined) shall be indicated where no performance is declared;
- For each essential characteristic listed in column 1, column 3 shall contain:
  - dated reference of the corresponding harmonised standard and, where relevant, the reference number of the Specific or Appropriate Technical Documentation used; or
  - dated reference of the corresponding European Assessment Document, where available, and reference number of the European Technical Assessment used.

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

**NA**

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.

**ROGNO, 28/11/2016**

Signed for and on behalf of:

**Global di Fardelli Ottorino & C. s.r.l.**  
**Ing. SANDRO PANTEGHINI – Technical Dept.**

