QRL Radiator Group
DECLARATION OF PERFORMANCE

DOP No. 20091602
Annex No.

1	**Product Type:**	Adagio Horizontal And Vertical Radiator Range
2	**Unique Identification Code(s):**	Type S70, D70 Heights 1800mm, 2000mm
3	**Intended use of the construction product, in accordance with the applicable harmonised technical specification, as forseen by the manufacturer:**	In heating systems in buildings: Radiators and convectors installed in a permanent manner in construction works, fed with water or steam at temperatures below 120°C, supplied by a remote energy source.
4	**Manufacturer:**	QRL Radiator Group, Imperial Park, Newport, NP10 8FS
5	**Authorised Representative:**	Not Applicable
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	**Notified Body:**	Cetiat NB 1623 Test Reports 2002-101, 2002-103, 2002-106, 2002-107, 2002-109, 2002-111, 2002-113, 2002-119
8	**Not applicable**	
9	**Declared Performance:**	See table below
10	**The performance of the product identified in points 1 and 2 is in accordance 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:
Name and function: Mike Wright, Product Development Manager

Place and date of issue: Newport, 20th September 2016 **Signature:**

9 Declared Performance:

Essential Characteristic	**Performance**				**Harmonised Technical Specification**
Reaction to fire	Class A1				EN442-1:2014
Release of dangerous substances	None				
Pressure tightness	5.38 bar maximum working pressure 7 bar leak pressure test 9.1 bar strength pressure test				
Surface temperature	Maximum 120°C				
Rated thermal output	**Outputs per 40mm element at ΔT50 (Watts)**		**Outputs per 40mm element at ΔT30 (Watts)**		
	Type	Type	Type	Type	
Height:	S70	D70	S70	D70	
1800mm	118.00		60.84		
2000mm	130.00	222.00	66.88	112.55	
Thermal output in different operating conditions	**Thermal Output Characteristic Equations**				
Height:	Type S70		Type D70		
1800mm	$\Phi = 0.7387 * \Delta T^{1.2969}$				
2000mm	$\Phi = 0.8009 * \Delta T^{1.3010}$		$\Phi = 1.2220 * \Delta T^{1.3298}$		
Durability	No corrosion after 100 hrs humidity Minor impact resistance to class 0-2 table 1 of ISO2409				