Bristan Group

EU Declaration of Performance

In accordance with the EU Construction Products Regulation 305-2011

15015-0501-D1

1. Product Type: Radiator/Convector
1a. Equipment Type: Heated Towel Rails
1b. Product Range: Bristan & Heritage

1c. Model Numbers: AHC70, AHA70, AHC72, AHC73, AHA73, AHC74, AHC76,

AHA76, AHC77, AHC79, AHA80, AHC80, AHC90, AHC94, AHC102, AHC103, AHC101, DELTA, CALLISTO, LUNAR.

AHC80B, AHC73B

2. Type, batch or serial number: N/A

3. Intended Use: Heat emitters for central heating systems to be supplied with hot

water and steam below 120°C from a remote source (boiler or

similar)

4. Manufacturer: Bristan Group Limited

Birch Coppice Business Park, Dordon, Tamworth, B78 1SG, UK

5. Authorised Representative: N/A

6. System of assessment and verification of constancy of performance:

System 3

7. Harmonised Standards applied in order to demonstrate compliance with the above Regulation:

EN 442-1: 2014

7.1 Notified Body: HLK 0626

7.1.1 Performed: Determination of the product-type on the basis of type testing

7.1.2 System: System 3

7.1.3 Issued: Notified Body Test Report, Certificate from the NB, FPC

Certificate of performance, test/calculation reports

8. European Technical Assessment: N/A

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9. Declared Performance:

| Essential Characteristics | Performance | | Harmonised Technical Specification |
|----------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------|------------------------------------------|
| Reaction to fire | Class A | 1 | EN 442-1, 5.1.7 |
| Release of dangerous substances | Conforms | | EN 442-1, Clause 4 and ZA.1 |
| Pressure tightness B | Leak Test Pass | | EN 442-1, 5.2 |
| | Burst test to 9 | 910 kPa | EN 442-1, 5.3 |
| Surface temperature | Pass | - | - |
| | AHC70, AHA70 | 176 W | |
| | AHC72 | 325 W | |
| | AHC73, AHA73 | 686 W | |
| | AHC74/CALLISTO | 227 W | |
| | AHC76, AHA76 | 155 W | |
| | AHC77/LUNAR | 280 W | - |
| Detect the court out out | AHC79 | 136 W | EN 440 4 01 |
| Rated thermal output | AHC80, AHA80, AHC80B | 391 W | EN 442-1, Clause 6 |
| | AHC90 | 631 W | |
| | AHC94 | 139 W | |
| | AHC101 | 527 W | |
| | AHC102 | 635 W | |
| | AHC103 | 165 W | |
| | DELTA | 515 W | |
| Thermal output in different operating conditions (characteristic curve) | AHC70 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.3069$ $n = 1.2529$ $\Delta T = 50K$ | EN 442-1, Clause 6 |
| | AHC71 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.3501$ $n = 1.2535$ $\Delta T = 50K$ | |
| | AHC72 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 2.4484$ $n = 1.2493$ $\Delta T = 50K$ | |
| | AHC73 / AHA73 / AHC73B | $\Phi_S = K_M . \Delta T^n$ Where $K_M = 5.2586$ $n = 1.2451$ $\Delta T = 50K$ | |
| | AHC74 / CALLISTO | $\Phi_S = K_M . \Delta T^n$ Where $K_M = 1.8532$ $n = 1.2290$ $\Delta T = 50K$ | |

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| Durability | Pass | Pass | |
|------------|----------------|------------------------------------------------------------------------------------|--|
| | DELTA | $\Phi_S = K_M . \Delta T^n$ Where $K_M = 3.9646$ $n = 1.2441$ $\Delta T = 50K$ | |
| | AHC103 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.2996$ $n = 1.2379$ $\Delta T = 50K$ | |
| | AHC102 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 4.7173$ $n = 1.2533$ $\Delta T = 50K$ | |
| | AHC101 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 4.1463$ $n = 1.2384$ $\Delta T = 50K$ | |
| | AHC94 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.1884$ $n = 1.2451$ $\Delta T = 50K$ | |
| | AHC90 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.4606$ $n = 1.5513$ $\Delta T = 50K$ | |
| | AHC80 / AHC80B | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 2.9496$ $n = 1.2490$ $\Delta T = 50K$ | |
| | AHC79 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.1547$ $n = 1.195$ $\Delta T = 50K$ | |
| | AHC77 / LUNAR | $\Phi_S = K_M . \Delta T^n$ Where $K_M = 2.5277$ $n = 1.2030$ $\Delta T = 50K$ | |
| | AHC76 / AHA76 | $\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1.4468$ $n = 1.1956$ $\Delta T = 50K$ | |

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10. Declaration:

The performance of the product identified in points 1 & 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.

Authorised Signatory on behalf of the manufacturer:

Name: Dominic West

Position: Supply Chain & Operations Director

Company: Bristan Group Limited

Issue Date: 09/06/2017

At: Bristan Group Ltd, Tamworth, B78 1SG, UK

<u>Information on the Content of Hazardous Substances in the Construction</u> <u>Product</u>

As required by EU CPR Regulation 305-2011
As identified by Articles 31 & 33 of the EU REACH Regulation 1907-2006

Equipment Type: Heated Towel Rails **Product Range:** Bristan & Heritage

Model Numbers: AHC70, AHA70, AHC72, AHC73, AHA73, AHC74, AHC76, AHA76,

AHC77, AHC79, AHA80, AHC80, AHC90, AHC94, AHC102, AHC103.

AHC101, DELTA, CALLISTO, LUNAR, AHC80B, AHC73B

Manufacturer: Bristan Group Limited

Birch Coppice Business Park, Dordon, Tamworth, B78 1SG, UK

Safety Data Sheets: N/A (product is an "Article", not a "Substance" or "Preparation")

Substance of Very High Concern (SVHC):

MM

The products identified above contain no SVHCs as per the Candidate List at date of issue of this document at a concentration above 0.1% weight by weight (w/w).

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