1. Univocal product-type identification code: HELYOS R/1 350

2. Type, lot, series no. or any other element that enables the construction product to be identified pursuant to article 11, paragraph 4: HELYOS R/1

3. Intended use(s) of the construction product according to the relative harmonised technical specification, as stated by the manufacturer: Heat emitting radiators designed for permanent installation in heating systems of residential buildings, fed from a remote source with hot water or steam at a temperature < 120 °C. (EN 442-1 December 2014, EN 442-2 December 2014)

4. Name, registered trade name or registered trademark and address of the manufacturer pursuant to article 11, paragraph 5: Radiatori 2000 S.p.a. – Via Francesca, 54/A – 60, 24040 – Ciserano (BG) - ITALY

5. If applicable, name and address of mandatory whose mandate includes the assignments as per article 12, paragraph 2: N.A.

6. System(s) for the assessment and verification of constancy of performance of the construction product, as per annex V: system 3.

7. In a declaration of performance concerning a construction product that comes under the scope of a harmonised standard:

   Notified Testing Laboratory: Politecnico di Milano – Energy Department (Notified body number: 1695)
   (name and identification number of notified body, if applicable)

   has performed type tests (standard UNI EN 442-1) according to system 3.
   (description of third party assignments as per annex V)

   and has issued:
   - Determination of the thermal output of a heating body (Test report ENE/MRT.RAP.14366 of 26/08/14)
   - Pressure tightness tests (Test report ENE/MRT.RAP.14366/P of 26/08/14)
   - Adherence test and Corrosion test in salt mist. (Test report ENE/MRT.RAP.14366/V of 26/08/14)
   (constancy of performance certificate, plant production control conformity certificate, test/design reports – as applicable)

   (name and identification number of organisation notified, if applicable)

   (description of third party assignments as per annex V)

   and has issued:

   (constancy of performance certificate, plant production control conformity certificate, test/design reports – as applicable)
8. In a declaration of performance concerning a construction product for which a European technical assessment has been released:

**N.A.**
(name and identification number of technical assessment body, if applicable)

has released

..........................................................................................................................

(reference number of European technical assessment)

based on

..........................................................................................................................

(reference number of European assessment document)

performed ................................................. according to system ..................................................

(description of third party assignments as per annex V)

and has issued

..........................................................................................................................

(constancy of performance certificate, plant production control conformity certificate, test/design reports – as applicable)

9. Performance declared

Notes to table:

1. Column 1 contains the list of the basic properties as defined in the harmonised technical specifications for the use(s) specified in § 3 above;

2. For each property listed in column 1 and conforming to the requirements as per article 6, this column gives the performance declared, expressed in terms of level, class, or through a description, in relation to the corresponding basic properties. If no performance has been declared, the column shows “NPD” (No Performance Determined):

3. For each basic property listed in column 1, column 3 gives:
   a. A reference, with relative date, to the corresponding harmonised standard, and, if applicable, the reference number of the specific technical documentation, or that of the appropriate technical documentation used;

   or

   b. A reference, with relative date, to the corresponding European assessment document, if available, and the reference number of the European technical assessment used;
### Basic properties (see note 1)

<table>
<thead>
<tr>
<th>Property</th>
<th>Performance (see note 2)</th>
<th>Harmonised technical spec. (see note 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction to fire</td>
<td>A1</td>
<td>Tests on organic part of any paint or surface treatment substance to verify whether it is &lt;1 % by mass. (Clause 5.2, standard EN 442-1:2014)</td>
</tr>
<tr>
<td>Release of hazardous substances</td>
<td>None</td>
<td>Clause 5.3, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Surface temperature</td>
<td>120°C maximum and corresponding to water supply temperature</td>
<td>EN 442-1:2014</td>
</tr>
<tr>
<td>Maximum operating pressure</td>
<td>16 bar</td>
<td>EN 442-1:2014</td>
</tr>
<tr>
<td>Pressure tightness (leak test)</td>
<td>20,8 bar</td>
<td>Clause 5.4, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Pressure tightness (resistance test)</td>
<td>27 bar</td>
<td>Clause 5.6, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Rated thermal output ΔT 50 K</td>
<td>86,1 Watt/element</td>
<td>Clause 5.8, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Rated thermal output ΔT 30 K</td>
<td>44,9 Watt/element</td>
<td>Clause 5.8, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Thermal power in different operating conditions (Characteristic equation)</td>
<td>Φ = Km x ΔT^n</td>
<td>Clause 5.8, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Coefficient Km</td>
<td>0,581</td>
<td>Clause 5.8, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Coefficient n</td>
<td>1,277</td>
<td>Clause 5.8, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Durability (impact resistance lightweight)</td>
<td>Level 0</td>
<td>Clause 5.9, standard EN 442-1:2014</td>
</tr>
<tr>
<td>Durability (corrosion test)</td>
<td>No corrosions after 200 h in salt mist</td>
<td>Clause 5.9, standard EN 442-1:2014</td>
</tr>
</tbody>
</table>

If a specific technical document has been used, pursuant to art. 37 or art. 38, the requirements met by the product:

……………………………………………………………………………………………………………………………………………………………………………………

……………………………………………………………………………………………………………………………………………………………………………………

10. The performance of the product as per §§ 1 & 2 above conforms to the performance declared as per § 9. This declaration of performance is released under the sole responsibility of the manufacturer as per § 4 above.

Signed in the name and on behalf of:

ARIANNA SCARAVAGGI  
Managing Director  
(name and functions)

Ciserano (BG – Italy)  
21/07/2015  
(place and date of issue)  

……………………………………………………………………………………………………………………………………………………………………………………

(signature)
1. Univocal product-type identification code: HELYOS R/1 500

2. Type, lot, series no. or any other element that enables the construction product to be identified pursuant to article 11, paragraph 4: HELYOS R/1

3. Intended use(s) of the construction product according to the relative harmonised technical specification, as stated by the manufacturer: Heat emitting radiators designed for permanent installation in heating systems of residential buildings, fed from a remote source with hot water or steam at a temperature < 120 °C. (EN 442-1 December 2014, EN 442-2 December 2014)

4. Name, registered trade name or registered trademark and address of the manufacturer pursuant to article 11, paragraph 5: Radiatori 2000 S.p.a. – Via Francesca, 54/A – 60, 24040 – Ciserano (BG) - ITALY

5. If applicable, name and address of mandatory whose mandate includes the assignments as per article 12, paragraph 2: N.A.

6. System(s) for the assessment and verification of constancy of performance of the construction product, as per annex V: system 3.

7. In a declaration of performance concerning a construction product that comes under the scope of a harmonised standard:

   Notified Testing Laboratory: Politecnico di Milano – Energy Department (Notified body number: 1695)
   (name and identification number of notified body, if applicable)

   has performed type tests (standard UNI EN 442-1) according to system 3.
   (description of third party assignments as per annex V)

   and has issued:
   - Determination of the thermal output of a heating body (Test report ENE/MRT.RAP.10181 of 10/06/10)
   - Pressure tightness tests (Test report ENE/MRT.RAP.10181/P of 10/06/10)
   (constancy of performance certificate, plant production control conformity certificate, test/design reports – as applicable)

   Notified Testing Laboratory: AQM S.r.l. (LAB No. 0095)
   (name and identification number of organisation notified, if applicable)

   has performed type tests (standard UNI EN 442-1) according to system 3.
   (description of third party assignments as per annex V)

   and has issued:
   - Adherence test and Corrosion test in salt mist. (Test report 2010-3092-8PC of 04/11/10)
   (constancy of performance certificate, plant production control conformity certificate, test/design reports – as applicable)
8. In a declaration of performance concerning a construction product for which a European technical assessment has been released:

N.A.
(name and identification number of technical assessment body, if applicable)

has released

..................................................................................................................
(reference number of European technical assessment)

based on

..................................................................................................................
(reference number of European assessment document)

performed .................................................. according to system ..................................................
(description of third party assignments as per annex V)

and has issued

..................................................................................................................
(constancy of performance certificate, plant production control conformity certificate, test/design reports – as applicable)

9. Performance declared

Notes to table:

1. Column 1 contains the list of the basic properties as defined in the harmonised technical specifications for the use(s) specified in § 3 above;

2. For each property listed in column 1 and conforming to the requirements as per article 6, this column gives the performance declared, expressed in terms of level, class, or through a description, in relation to the corresponding basic properties. If no performance has been declared, the column shows “NPD” (No Performance Determined):

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<tr>
<td><strong>Surface temperature</strong></td>
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</tr>
<tr>
<td><strong>Rated thermal output ΔT 50 K</strong></td>
<td>112.8 Watt/element</td>
</tr>
<tr>
<td><strong>Rated thermal output ΔT 30 K</strong></td>
<td>57.9 Watt/element</td>
</tr>
<tr>
<td><strong>Thermal power in different operating conditions (Characteristic equation)</strong></td>
<td>Φ = Km x ΔT^n</td>
</tr>
<tr>
<td><strong>Coefficient Km</strong></td>
<td>0.687</td>
</tr>
<tr>
<td><strong>Coefficient n</strong></td>
<td>1.303</td>
</tr>
<tr>
<td><strong>Durability (impact resistance lightweight)</strong></td>
<td>Level 0</td>
</tr>
<tr>
<td><strong>Durability (corrosion test)</strong></td>
<td>No corrosions after 100 h in salt mist</td>
</tr>
</tbody>
</table>

If a specific technical document has been used, pursuant to art. 37 or art. 38, the requirements met by the product:

10. The performance of the product as per §§ 1 & 2 above conforms to the performance declared as per § 9. This declaration of performance is released under the sole responsibility of the manufacturer as per § 4 above.

Signed in the name and on behalf of:

ARIANNA SCARAVAGGI
Managing Director
(name and functions)

Ciserano (BG – Italy) 21/07/2015
(place and date of issue)