Since our beginnings, we’ve grown into the UK’s number one radiator brand, manufacturing and distributing over 2 million radiators and products every year. With an expert research facility in Belgium, we’re dedicated to continually developing innovative products and widening our extensive range to enable you to offer your customers the largest selection of technically-advanced radiator styles and sizes in the UK.

There’s a reason Stelrad are the UK’s number one radiator brand

LEADING THE WAY

Stelrad has been manufacturing high quality, steel radiators since 1936, so it’s safe to say we know a thing or two about heating.
Innovation, development and customer service is at the heart of everything we do, and we offer ranges of radiators to suit your every need. Energy saving, safety, designer style, kitchens, bathrooms - a huge choice, many available in 36 colours to match your taste and decor. Ordering is easy, and you can download simple fitting instructions and guides from our website. So when you're thinking about radiators, there's just one name to consider... Stelrad.

**PRODUCT RANGES**

Discover our range of designer radiators, expertly designed and styled to suit every taste and interior. You can choose from a range of shapes, sizes, colours and finishes.

**COLOURS**

These days you are not limited to a traditional white radiator, you have the freedom to choose the most suitable colour radiator which will complement the colour scheme of your room. Most of our radiators can be ordered in a choice of 36 colours and have a 6 week lead time.

**FITTING**

Plumbers and installers are at the heart of everything we do. Our definitive range of products offers a solution for every project and requirement. View our helpful range of downloadable installation documents and videos at Stelrad.com

**QUOTE SERVICE**

Our nationwide Specification and Quotes Teams are on hand to discuss your requirements for your project. Contact our expert Quotes Team for a personalised quote on 01709 572267 or email stelrad.quotes@stelrad.com

**ORDERING**

If you would like to order a product, please visit Stelrad.com to find your nearest stocking branch.
The Vita Series is made up of six expertly selected radiators for the home, which provide unbeatable value, quality & design to suit every budget and taste.
Stelrad quality at the best price on the market. The Stelrad Vita Value is the obvious choice for homeowners.

Please refer to page 34 for technical information.
The Stelrad Vita Compact is a stylish compact radiator, with a compact price to match.

Please refer to page 38 for technical information.
Save money & energy. Highly efficient energy saving radiator saving up to 10.5% on fuel bills, at a cost-effective price, that’s the Stelrad Vita Eco.

Accessories included are:
- TRV head
- Integral Thermostatic Valve
- Piping connections with either 10mm or 15mm couplings
- Hydro connection block with straight or angled piping options
- Hydro block also includes drain off function

Please refer to page 42 for technical information.

---

<table>
<thead>
<tr>
<th>RANGE</th>
<th>132</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPES</td>
<td>K1, K2</td>
</tr>
<tr>
<td>HEIGHTS (MM)</td>
<td>300, 500, 600</td>
</tr>
<tr>
<td>LENGTHS (MM)</td>
<td>400 - 2000</td>
</tr>
<tr>
<td>OUTPUTS (WATTS)</td>
<td>333 - 3234</td>
</tr>
<tr>
<td>OUTPUTS (BTU/HRS)</td>
<td>1136 - 11034</td>
</tr>
</tbody>
</table>
The Stelrad Vita Deco’s sleek and elegant lines make this an easy move to designer radiators. With a premium exterior and Stelrad quality, it’s a clear choice for the interior-conscious homeowner.

Please refer to page 60 for technical information.
A minimal, stylish design for an understated, flat finish, the Stelrad Vita Plan is simplicity at its best. Available in a wide range of heights and widths, the Vita Plan can be tailored to work for any space.

<table>
<thead>
<tr>
<th>RANGE</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPES</td>
<td>K1, K2</td>
<td></td>
</tr>
<tr>
<td>HEIGHTS (MM)</td>
<td>300, 450, 600</td>
<td></td>
</tr>
<tr>
<td>LENGTHS (MM)</td>
<td>400 - 2000</td>
<td></td>
</tr>
<tr>
<td>OUTPUTS (WATTS)</td>
<td>215 - 3203</td>
<td></td>
</tr>
<tr>
<td>OUTPUTS (BTU/HR)</td>
<td>752 - 10928</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to page 61 for technical information.
The Stelrad Vita Ultra radiator is ideal for those who are passionate about colour. Available in a range of bespoke finishes and complete with optional towel rails, the Stelrad Vita Ultra is also perfectly suited for bathrooms and kitchens.

Please refer to page 64 for technical information. Please refer to page 72 for colour options.
A compact vertical with a compact price to match, the Vita Compact Vertical is a smart and stylish choice for a smaller space.

Please refer to page 66 for technical information.
New Vita Deco Vertical

Designer style hits new heights with this sleek and elegant Vita Deco Vertical - the perfect premium quality choice for modern homes.

Please refer to page 68 for technical information.

<table>
<thead>
<tr>
<th>Range</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Types</td>
<td>K2</td>
</tr>
<tr>
<td>Heights (MM)</td>
<td>1800</td>
</tr>
<tr>
<td>Lengths (MM)</td>
<td>400, 500, 600</td>
</tr>
<tr>
<td>Outputs (Watts)</td>
<td>1476 - 2214</td>
</tr>
<tr>
<td>Outputs (BTU/HR)</td>
<td>5036 - 7554</td>
</tr>
</tbody>
</table>
Minimalist styling with an understated flat finish, simply perfect. The Vita Plan Vertical will complement any space.

NEW VITA PLAN VERTICAL

<table>
<thead>
<tr>
<th>RANGE</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPES</td>
<td>K2</td>
</tr>
<tr>
<td>HEIGHTS (MM)</td>
<td>1800</td>
</tr>
<tr>
<td>LENGTHS (MM)</td>
<td>400, 500, 600</td>
</tr>
<tr>
<td>OUTPUTS (WATTS)</td>
<td>1476 - 2214</td>
</tr>
<tr>
<td>OUTPUTS (BTU/HR)</td>
<td>5036 - 7554</td>
</tr>
</tbody>
</table>

Please refer to page 70 for technical information.
We recommend that you place the brackets between the 2nd and 3rd pipes, 80mm from the radiator to the center of the bracket.
Technical information

Extra performance to guaranteed standards
Stelrad combine the most sophisticated production resources in Europe with substantial investment in testing and verification of performance data - which has helped us create high output radiators delivering heating performance that exceeds expectation.

More choice for application flexibility
A range of models provide extra sizing flexibility and covers a multitude of application requirements, including those where there are installation difficulties or where wall space is at a premium.

Superb quality from design to installation
Our radiators are specifically designed to minimise any movement, providing a tight, professional fit that will remain in place, even after storage, transit and installation. Convectors are precision welded directly onto the waterways for greater efficiency and economy, with flexible connection options in place, even after storage, transit and installation. Convectors deliver heating performance that exceeds expectation. This clever packaging design allows practical packaging that will keep the product pristine, right through to installation. Stelrad radiators are manufactured under ISO 9001 quality specifications.

A comprehensive range of quality chemicals including inhibitors, cleaners, leak sealers and noise reducers that protect and maintain central heating systems can be obtained from Sentinel Performance Solutions Ltd 7650 Daresbury Park, Warrington, Cheshire, WA4 4BS, www.sentinelprotects.com Fernox Unit 2 Genesis Business Park, Albert Drive, Sheerwater, Woking, Surrey, GU21 3BW www.fernox.com

Temperature table
For systems not operating at Δt=50 the factors in the table below should be applied. The output of a given radiator can be obtained by multiplying the quoted Δt=50 output by the operating factor. Conversely, to derive a non-Δt=50 output, divide the heat output required by the relevant operation factor. This 'Δt=50 equivalent output' can then be used to select a radiator from the standard tables.

<table>
<thead>
<tr>
<th>Δt</th>
<th>Operating Factor</th>
<th>Δt</th>
<th>Operating Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.050</td>
<td>10</td>
<td>0.057</td>
</tr>
<tr>
<td>10</td>
<td>0.123</td>
<td>20</td>
<td>0.142</td>
</tr>
<tr>
<td>15</td>
<td>0.207</td>
<td>30</td>
<td>0.240</td>
</tr>
<tr>
<td>20</td>
<td>0.284</td>
<td>40</td>
<td>0.348</td>
</tr>
<tr>
<td>25</td>
<td>0.386</td>
<td>50</td>
<td>0.466</td>
</tr>
<tr>
<td>30</td>
<td>0.515</td>
<td>60</td>
<td>0.590</td>
</tr>
<tr>
<td>35</td>
<td>0.639</td>
<td>70</td>
<td>0.721</td>
</tr>
<tr>
<td>40</td>
<td>0.748</td>
<td>80</td>
<td>0.858</td>
</tr>
<tr>
<td>45</td>
<td>0.872</td>
<td>90</td>
<td>1.000</td>
</tr>
<tr>
<td>50</td>
<td>1.000</td>
<td>100</td>
<td>1.147</td>
</tr>
<tr>
<td>55</td>
<td>1.132</td>
<td>110</td>
<td>1.299</td>
</tr>
<tr>
<td>60</td>
<td>1.267</td>
<td>120</td>
<td>1.454</td>
</tr>
<tr>
<td>65</td>
<td>1.406</td>
<td>130</td>
<td>1.613</td>
</tr>
<tr>
<td>70</td>
<td>1.549</td>
<td>150</td>
<td>1.776</td>
</tr>
<tr>
<td>75</td>
<td>1.694</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: Exact output at Δt=60 - 2000 Btu/hr
Output at Δt=50 - 0.515 x 2000 Btu/hr
Average coefficient of 130 is used in the example above

Testing and operating pressures
All models are high pressure tested to withstand 152.3 psi (10.5 bar). Strictly controlled independent laboratory testing ensures that all Stelrad radiators are guaranteed to perform to a maximum working pressure of 116 psi (8 bar) at a maximum temperature of 95°C. All conform to BS EN 442 - the European Standard for radiators.

Connections
Each radiator has 4 x ½” connections as standard. A ½” valve adaptor is also available, providing a ½” connector option to the valve without reducing performance.

Applications
Stelrad radiators are suitable for two pipe installations. For single pipe applications, it is advisable to use diversion tees in the pipework, as this will assist in obtaining design performance from the radiators. Although our radiators are suitable for Microbore pipework, the back tappings make them unsuitable for twin entry valves.

Installation
Everything required for installation can be found within each radiator’s packaging. Brackets are of a strong design, with open top and deep slots, which facilitate easy and secure installation. Plastic inserts seat the radiator precisely on the bracket minimizing expansion and contraction noise. The neat nickel-plated plug and vent provide a watertight joint, whilst complementing the superior finish.

To facilitate easy one off replacement, nickel-plated brass extension pieces are also available, complete with sealing washer, in 20mm, 30mm and 40mm options. Recommended height from the floor to the base of the radiator is 150mm minimum. This allows adequate airflow when the radiator is placed on the bracket.

Caution
When designing for domestic systems we recommend that the Stelrad radiators are only used in heating systems complying with British Standard Code of Practice for Central Heating for Domestic Premises BS EN 12828:2003 and BS EN 12831:2003. Single feed, direct cylinders are not recommended as should tees in the pipework, as this will assist in obtaining design performance from the radiators. Although our radiators are suitable for Microbore pipework, the back tappings make them unsuitable for twin entry valves.

Water treatment
On completion of the installation, the system should be properly flushed and filled in accordance with the British Standard Code of Practice BS 7593:2006 for the Treatment of Water in Domestic Hot Water Central Heating Systems, Part L of Building Regulations and Good Practice Guidance for Scotland.

After installation of a new Stelrad radiator the central heating system should be cleaned and flushed with cleaner to remove existing contaminants, flux residue and other installation debris which, if left, can cause damage to the new radiator. Afterwards, treat the system with an inhibitor to ensure long term protection against corrosion and limescale.

A comprehensive range of quality chemicals including inhibitors, cleaners, leak sealers and noise reducers that protect and maintain central heating systems can be obtained from Sentinel Performance Solutions Ltd 7650 Daresbury Park, Warrington, Cheshire, WA4 4BS, www.sentinelprotects.com Fernox Unit 2 Genesis Business Park, Albert Drive, Sheerwater, Woking, Surrey, GU21 3BW www.fernox.com

Two coat paint process
Each Stelrad radiator is subjected to a multi stage cleaning process before the paint is applied. This involves several rinsing stages, including an iron phosphate and demineralisation rinse. The first coat of paint is applied by electrophoresis and the radiator is then stoved and cooled. The second powder coat in warm white (RAL 9016) is applied and the radiator goes through a final curing stage. It is then allowed to cool, prior to packaging.

For further information and advice call 0844 543 6200.
**Accessories**

**VITA ULTRA TOWEL RAIL BAR**
- 400mm wide UIN 8310004
- 600mm wide UIN 8310006
- 800mm wide UIN 8310008
- 1000mm wide UIN 8310010
Available for the Vita Ultra only

**PRESET KEY**
Part of the hardware pack.
UIN no. 9222
Available for the Vita Eco only

**FULL HEIGHT & ANTI-LIFT BRACKETS**
- 350mm wide UN 9191
- 400mm wide UN 9192
- 450mm wide UN 9193
- 500mm wide UN 9194
- 600mm wide UN 9195
- 700mm wide UN 9196
Full height and anti-lift brackets are available for a secure fixing in commercial applications.
Available for all the products within the Vita Series

**EXTENSION PIECES**
Optional extension pieces for easy replacement:
- 20mm UIN 9176
- 30mm UIN 9177
- 40mm UIN 9178
Available for all the products within the Vita Series

**¾” VALVE ADAPTOR**
Optional ¾” valve adapter for connection without performance reduction.
UIN 140117
Available for all the products in the Vita Series

**FLOOR MOUNTING BRACKETS**
- 300mm wide UN 9179
- 450mm wide UN 9180
- 600mm wide UN 9181
- 700mm wide UN 9182
Floor standing brackets provide a practical solution for standard models, where situations, such as tiled walls, create installation difficulties.
Available for Vita Value, Vita Compact, Vita Deco, Vita Plan, Vita Eco.

**FULL HEIGHT & ANTI-LIFT BRACKETS**
- 300mm wide UIN 9179
- 450mm wide UIN 9180
- 600mm wide UIN 9181
- 700mm wide UIN 9182
Floor standing brackets provide a practical solution for standard models, where situations, such as tiled walls, create installation difficulties.
Available for Vita Value, Vita Compact, Vita Deco, Vita Plan, Vita Eco.

**ROBUST PACKAGING**
Robust packaging protects the product right through to hand over. Installation instructions can be found on the reverse of the identification label.
Example packaging above, the packaging for each radiator will vary.

**ALL FIXINGS**
All fixing requirements are complete within the packaging. Content will vary depending on product.
## Vita Value

### EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442

<table>
<thead>
<tr>
<th>Type</th>
<th>K1</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>300</td>
<td>450</td>
</tr>
<tr>
<td>m</td>
<td>600</td>
<td>900</td>
</tr>
<tr>
<td>mm</td>
<td>600</td>
<td>900</td>
</tr>
<tr>
<td>Height</td>
<td>300</td>
<td>450</td>
</tr>
<tr>
<td>m</td>
<td>600</td>
<td>900</td>
</tr>
<tr>
<td>mm</td>
<td>600</td>
<td>900</td>
</tr>
</tbody>
</table>

### MOUNTING BRACKETS

All dimensions in mm. Inches in brackets.

Floor mounting brackets available.

### Floor Mounting Brackets

**K1, P+ AND K2 (1000mm)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
</tr>
<tr>
<td>Width</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
</tr>
<tr>
<td>Depth</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
</tr>
<tr>
<td>Weight</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
</tr>
</tbody>
</table>

**K1, P+ AND K2 (OVER 1000mm)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
</tr>
<tr>
<td>Width</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
</tr>
<tr>
<td>Depth</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
</tr>
<tr>
<td>Weight</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
</tr>
</tbody>
</table>

### Heat Source

You may wish to consider the [Vita Value](https://www.stelrad.com).

**Stelrad Vita Series**

Heat output (see your installer or system designer or download from www.stelrad.com).

**Dimensions**

All dimensions in mm. Inches in brackets.

**Water contents (l/m)**

K1, P+ and K2.

**K1, P+ AND K2 (1000mm)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
</tr>
<tr>
<td>Width</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
</tr>
<tr>
<td>Depth</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
</tr>
<tr>
<td>Weight</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
</tr>
</tbody>
</table>

**K1, P+ AND K2 (OVER 1000mm)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
<th>mm</th>
<th>inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
<td>290</td>
<td>11.40</td>
</tr>
<tr>
<td>Width</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
<td>110</td>
<td>4.33</td>
</tr>
<tr>
<td>Depth</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
<td>80</td>
<td>3.15</td>
</tr>
<tr>
<td>Weight</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
<td>60</td>
<td>2.36</td>
</tr>
</tbody>
</table>

### Heat Output

- **300**
- **450**
- **600**
- **700**
Vita Value

K1, P+ AND K2 LUG POSITION
All dimensions in mm. Inches in brackets.

<table>
<thead>
<tr>
<th>PANEL HEIGHT</th>
<th>D</th>
<th>K1</th>
<th>P+ &amp; K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>300</td>
<td>11.73</td>
<td>117</td>
<td>4.61</td>
</tr>
<tr>
<td>450</td>
<td>17.72</td>
<td>180</td>
<td>7.09</td>
</tr>
<tr>
<td>500</td>
<td>19.68</td>
<td>195</td>
<td>7.71</td>
</tr>
<tr>
<td>700</td>
<td>27.56</td>
<td>277</td>
<td>10.88</td>
</tr>
</tbody>
</table>

L/2 is the length divided by two.

PRESSURE DROP

WALL MOUNTING INFORMATION
All dimensions in mm. Inches in brackets.

Value bracket position. A = Closest to wall / B = Furthest from wall / (R) = Recommended mounting position

VALUE PIPING OPTIONS
**WALL MOUNTING INFORMATION**

All dimensions in mm. Inches in brackets.

**COMPACT PIPING OPTIONS**

- **Type 11 (K1)**
- **Type 21 (P+), 22 (K2)**

**PRESSURE DROP**

- Compact bracket position. A = Closest to wall / B = Furthest from wall / (R) = Recommended mounting position
- At long only, position B and K2 can be position A or B.

**K1, P+ AND K2 LUG POSITION**

<table>
<thead>
<tr>
<th>Dia (mm)</th>
<th>K1</th>
<th>P+ &amp; K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 - 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1800 - 2000</td>
<td>17</td>
<td>0.67</td>
</tr>
</tbody>
</table>

**PANEL HEIGHT**

<table>
<thead>
<tr>
<th>D (mm)</th>
<th>K1</th>
<th>P+ &amp; K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>217.24</td>
<td>60</td>
<td>2.36</td>
</tr>
<tr>
<td>255.95</td>
<td>17</td>
<td>0.67</td>
</tr>
</tbody>
</table>

**COMPACT PIPING OPTIONS**

- **Type 11 (K1)**
- **Type 21 (P+), 22 (K2)**
## Vita Eco

### K1

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>Type</th>
<th>Height</th>
<th>Length</th>
<th>Stelrad UIN</th>
<th>Angle (mm)</th>
<th>Straight (mm)</th>
<th>Angle (mm)</th>
<th>Heat Output (Watts)</th>
<th>Price exc VAT (£)</th>
<th>Price inc VAT (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td></td>
<td>1690</td>
<td>1076</td>
<td>843111010S</td>
<td>10</td>
<td>599</td>
<td>1797</td>
<td>668.59</td>
<td>692.01</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
<td>2160</td>
<td>1450</td>
<td>843111010A</td>
<td>10</td>
<td>533</td>
<td>1158</td>
<td>626.04</td>
<td>654.27</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td></td>
<td>2630</td>
<td>1840</td>
<td>843111015S</td>
<td>15</td>
<td>817</td>
<td>1422</td>
<td>669.61</td>
<td>696.53</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3100</td>
<td>2200</td>
<td>843111015A</td>
<td>15</td>
<td>702</td>
<td>1670</td>
<td>609.27</td>
<td>637.40</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3570</td>
<td>2580</td>
<td>843111015S</td>
<td>15</td>
<td>588</td>
<td>2058</td>
<td>600.73</td>
<td>628.86</td>
<td></td>
</tr>
</tbody>
</table>

### K2

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>Type</th>
<th>Height</th>
<th>Length</th>
<th>Stelrad UIN</th>
<th>Angle (mm)</th>
<th>Straight (mm)</th>
<th>Angle (mm)</th>
<th>Heat Output (Watts)</th>
<th>Price exc VAT (£)</th>
<th>Price inc VAT (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td></td>
<td>1720</td>
<td>1200</td>
<td>843221010S</td>
<td>10</td>
<td>933</td>
<td>3183</td>
<td>91.35</td>
<td>109.62</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
<td>2200</td>
<td>1580</td>
<td>843221010A</td>
<td>10</td>
<td>560</td>
<td>1911</td>
<td>64.88</td>
<td>77.86</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td></td>
<td>2680</td>
<td>2060</td>
<td>843221015S</td>
<td>15</td>
<td>701</td>
<td>2392</td>
<td>70.48</td>
<td>84.58</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3160</td>
<td>2540</td>
<td>843221015A</td>
<td>15</td>
<td>841</td>
<td>2869</td>
<td>74.84</td>
<td>89.81</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3640</td>
<td>3020</td>
<td>843221015S</td>
<td>15</td>
<td>981</td>
<td>3347</td>
<td>78.83</td>
<td>94.60</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4120</td>
<td>3500</td>
<td>843221015A</td>
<td>15</td>
<td>1121</td>
<td>3825</td>
<td>81.81</td>
<td>107.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4600</td>
<td>4080</td>
<td>843221015S</td>
<td>15</td>
<td>1261</td>
<td>4303</td>
<td>86.05</td>
<td>103.26</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5080</td>
<td>4560</td>
<td>843221015A</td>
<td>15</td>
<td>1401</td>
<td>4780</td>
<td>89.79</td>
<td>109.75</td>
<td></td>
</tr>
</tbody>
</table>

### EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442

<table>
<thead>
<tr>
<th>Type</th>
<th>K1</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height (mm)</td>
<td>Height (mm)</td>
</tr>
<tr>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
</tbody>
</table>

- W/m at 75/65/20: 939, 823, 983, 933, 1431, 1417
- n-coefficients: 1.32, 1.30, 1.29
- Heated surface area (m²/m): 12.09, 8.06, 6.67
- Weight (kg/m): 9.31, 16.24, 19.70
- Water contents (l/m): 1.89, 2.80, 3.25
- Tolerances: ±5%
Vita Eco

Improves energy efficiency and comfort whilst reducing bills.

A radiator that produces more comfort at less cost

The power we use in buildings accounts for 40% of global consumption. And that has a massive impact on the environment. But with smarter energy management, our buildings can emit up to 60% less CO₂. That’s something the European Union are moving towards, by making energy consumption standards stricter.

At Stelrad, we believe the heating industry has a major role to play, by developing systems that work so efficiently that they produce more heat at lower temperatures.

That’s why we’ve developed Vita Eco, the energy saving radiator. It produces more radiant heat than traditional radiators - saving energy while raising comfort levels. At less cost to the user, and to the environment.

A radiator that reduces energy bills by up to 10.5%

Your choice of radiator determines how comfortable the heating in your home feels. And how much that comfort costs. You know how a draught free room at 20°C can still feel uncomfortable?

The energy saving radiant heat of the Vita Eco will soon fix that. With convection heating, hot air rises from the heating elements, cools down, descends via the wall and is heated again. With radiant heating, infrared radiation is sent directly around the room regardless of airflow like wind or draughts.

Radiant heat heats up the room, furniture and people, and is reflected back to create a more comfortable feeling similar to the rays of the sun. And standing in the sun always feels much warmer, even if the surrounding temperature is no higher than in the shadow - because it is radiant heat.

A radiator that delivers more heat, more efficiently.

In a traditional radiator the heat generated consists, on average, of 80% convection heat and 20% radiant heat - limiting the feeling of warmth

The Vita Eco energy saving radiator increases radiant heat by up to 50%.

It reaches its optimum performance level while a traditional heater is still heating up

A radiator that produces more comfort at less cost

A radiator that reduces energy bills by up to 10.5%

For further information and advice call 0844 543 6200

Test conditions: radiator K2, height 600mm, length 1000mm, temperatures 70/55/20°C.

Supported by a RIBA & CIBSE CPD programme

Stelrad are certified as a member of the RIBA and CIBSE CPD Providers Network. This means we can provide RIBA and CIBSE approved CPD material to architects and other specifiers. An hour-long programme delivered by a member of the Stelrad team delivers information on every aspect of the Vita Eco energy saving radiator and its application.

Energy savings tested, assessed and declared by KIWA

Kiwa is a highly respected Pan European institute providing internationally recognized declaration services for systems and products. As an independent expert Kiwa also carries out specialist testing, and the Kiwa Gas Technology division has rigorously trialled the Vita Eco radiator to assess and declared its energy saving performance.

Compatibility

The Vita Eco radiator is compatible with the following:

- Gas boilers
- Electric boilers
- Solar PV
- Ground source heat pumps (GSHP)
- Air source heat pumps (ASHP)
- Biomass installations

Improves energy efficiency and comfort whilst reducing bills.

A radiator that produces more comfort at less cost

The power we use in buildings accounts for 40% of global consumption. And that has a massive impact on the environment. But with smarter energy management, our buildings can emit up to 60% less CO₂. That’s something the European Union are moving towards, by making energy consumption standards stricter.

At Stelrad, we believe the heating industry has a major role to play, by developing systems that work so efficiently that they produce more heat at lower temperatures.

That’s why we’ve developed Vita Eco, the energy saving radiator. It produces more radiant heat than traditional radiators - saving energy while raising comfort levels. At less cost to the user, and to the environment.

A radiator that reduces energy bills by up to 10.5%

Your choice of radiator determines how comfortable the heating in your home feels. And how much that comfort costs. You know how a draught free room at 20°C can still feel uncomfortable?

The energy saving radiant heat of the Vita Eco will soon fix that. With convection heating, hot air rises from the heating elements, cools down, descends via the wall and is heated again. With radiant heating, infrared radiation is sent directly around the room regardless of airflow like wind or draughts.

Radiant heat heats up the room, furniture and people, and is reflected back to create a more comfortable feeling similar to the rays of the sun. And standing in the sun always feels much warmer, even if the surrounding temperature is no higher than in the shadow - because it is radiant heat.

A radiator that delivers more heat, more efficiently.

In a traditional radiator the heat generated consists, on average, of 80% convection heat and 20% radiant heat - limiting the feeling of warmth

The Vita Eco energy saving radiator increases radiant heat by up to 50%.

It reaches its optimum performance level while a traditional heater is still heating up

A radiator that produces more comfort at less cost

A radiator that reduces energy bills by up to 10.5%

For further information and advice call 0844 543 6200

Test conditions: radiator K2, height 600mm, length 1000mm, temperatures 70/55/20°C.

Supported by a RIBA & CIBSE CPD programme

Stelrad are certified as a member of the RIBA and CIBSE CPD Providers Network. This means we can provide RIBA and CIBSE approved CPD material to architects and other specifiers. An hour-long programme delivered by a member of the Stelrad team delivers information on every aspect of the Vita Eco energy saving radiator and its application.

Energy savings tested, assessed and declared by KIWA

Kiwa is a highly respected Pan European institute providing internationally recognized declaration services for systems and products. As an independent expert Kiwa also carries out specialist testing, and the Kiwa Gas Technology division has rigorously trialled the Vita Eco radiator to assess and declared its energy saving performance.

Compatibility

The Vita Eco radiator is compatible with the following:

- Gas boilers
- Electric boilers
- Solar PV
- Ground source heat pumps (GSHP)
- Air source heat pumps (ASHP)
- Biomass installations

Improves energy efficiency and comfort whilst reducing bills.

A radiator that produces more comfort at less cost

The power we use in buildings accounts for 40% of global consumption. And that has a massive impact on the environment. But with smarter energy management, our buildings can emit up to 60% less CO₂. That’s something the European Union are moving towards, by making energy consumption standards stricter.

At Stelrad, we believe the heating industry has a major role to play, by developing systems that work so efficiently that they produce more heat at lower temperatures.

That’s why we’ve developed Vita Eco, the energy saving radiator. It produces more radiant heat than traditional radiators - saving energy while raising comfort levels. At less cost to the user, and to the environment.

A radiator that reduces energy bills by up to 10.5%

Your choice of radiator determines how comfortable the heating in your home feels. And how much that comfort costs. You know how a draught free room at 20°C can still feel uncomfortable?

The energy saving radiant heat of the Vita Eco will soon fix that. With convection heating, hot air rises from the heating elements, cools down, descends via the wall and is heated again. With radiant heating, infrared radiation is sent directly around the room regardless of airflow like wind or draughts.

Radiant heat heats up the room, furniture and people, and is reflected back to create a more comfortable feeling similar to the rays of the sun. And standing in the sun always feels much warmer, even if the surrounding temperature is no higher than in the shadow - because it is radiant heat.

A radiator that delivers more heat, more efficiently.

In a traditional radiator the heat generated consists, on average, of 80% convection heat and 20% radiant heat - limiting the feeling of warmth

The Vita Eco energy saving radiator increases radiant heat by up to 50%.

It reaches its optimum performance level while a traditional heater is still heating up

A radiator that produces more comfort at less cost

A radiator that reduces energy bills by up to 10.5%

For further information and advice call 0844 543 6200

Test conditions: radiator K2, height 600mm, length 1000mm, temperatures 70/55/20°C.

Supported by a RIBA & CIBSE CPD programme

Stelrad are certified as a member of the RIBA and CIBSE CPD Providers Network. This means we can provide RIBA and CIBSE approved CPD material to architects and other specifiers. An hour-long programme delivered by a member of the Stelrad team delivers information on every aspect of the Vita Eco energy saving radiator and its application.

Energy savings tested, assessed and declared by KIWA

Kiwa is a highly respected Pan European institute providing internationally recognized declaration services for systems and products. As an independent expert Kiwa also carries out specialist testing, and the Kiwa Gas Technology division has rigorously trialled the Vita Eco radiator to assess and declared its energy saving performance.

Compatibility

The Vita Eco radiator is compatible with the following:

- Gas boilers
- Electric boilers
- Solar PV
- Ground source heat pumps (GSHP)
- Air source heat pumps (ASHP)
- Biomass installations

Improves energy efficiency and comfort whilst reducing bills.

A radiator that produces more comfort at less cost

The power we use in buildings accounts for 40% of global consumption. And that has a massive impact on the environment. But with smarter energy management, our buildings can emit up to 60% less CO₂. That’s something the European Union are moving towards, by making energy consumption standards stricter.

At Stelrad, we believe the heating industry has a major role to play, by developing systems that work so efficiently that they produce more heat at lower temperatures.

That’s why we’ve developed Vita Eco, the energy saving radiator. It produces more radiant heat than traditional radiators - saving energy while raising comfort levels. At less cost to the user, and to the environment.

A radiator that reduces energy bills by up to 10.5%

Your choice of radiator determines how comfortable the heating in your home feels. And how much that comfort costs. You know how a draught free room at 20°C can still feel uncomfortable?

The energy saving radiant heat of the Vita Eco will soon fix that. With convection heating, hot air rises from the heating elements, cools down, descends via the wall and is heated again. With radiant heating, infrared radiation is sent directly around the room regardless of airflow like wind or draughts.

Radiant heat heats up the room, furniture and people, and is reflected back to create a more comfortable feeling similar to the rays of the sun. And standing in the sun always feels much warmer, even if the surrounding temperature is no higher than in the shadow - because it is radiant heat.

A radiator that delivers more heat, more efficiently.

In a traditional radiator the heat generated consists, on average, of 80% convection heat and 20% radiant heat - limiting the feeling of warmth

The Vita Eco energy saving radiator increases radiant heat by up to 50%.

It reaches its optimum performance level while a traditional heater is still heating up

A radiator that produces more comfort at less cost

A radiator that reduces energy bills by up to 10.5%

For further information and advice call 0844 543 6200

Test conditions: radiator K2, height 600mm, length 1000mm, temperatures 70/55/20°C.
A radiator that heats the room, not the wall

Traditional radiators are as warm at the back as they are at the front. So valuable energy is wasted, as the heat goes into and through the wall.

The unique and innovative technology of the Vita Eco radiator changes all that. The flow connection to the front panel and the return connection into the back ensures that you feel warmer, faster.

And thanks to the higher radiation from the front panel, the back panel is much cooler than with other radiators. So up to 9% less radiant heat is lost through the back of the radiator. That’s not just good for comfort levels. It also means the heating system is more efficient, which reduces bills - and CO₂ emissions.

Less heat lost into the walls

Fully compatible with renewable energy resources

The Vita Eco energy saving radiator is perfectly suited for both solo and multiple heating installations. It can be connected to a modulating gas or fuel burner and is compatible with all kinds of low temperature systems, such as heat pumps, solar cells and biomass installations.

Faster heating means less CO₂ - and lower energy bills

Higher radiant heat levels and front panel temperatures combine with other benefits to reduce bills and CO₂ emissions.

Heating up fully in less time

Thanks to its unique flow pattern, heat up times are dramatically shorter for the Vita Eco compared to a traditional radiator.

1. Directed flow
   Hot water is directed into and around the front panel. In a traditional radiator the water flow divides in parallel to front and back panel.

2. Distribution of hot water
   Hot water rises in one water channel and is distributed equally over the front panel. A unique system then directs it to the back panel where it is spread equally over the back panel water channels.

3. Faster heat up
   The front panel of the Vita Eco radiator reaches a temperature of 62.5°C after 8.5 minutes. At that time, the front panel of a traditional radiator is at 59.3°C. It only reaches its maximum temperature after 11 minutes, by which time the Vita Eco has already been operating at maximum for 2.5 minutes.

Fast, convenient and flexible fitting

Central connection

The connection coupling of the Vita Eco is located in the middle of the radiator. This means that the location of the connection no longer depends on the length of the radiator, so pipes can be laid down early in the project with no need to know the size of the radiator.

Thermostatic head with built-in sensor

Technical data

• Setting range 6°C to 28°C (43°F to 82°F)
• Valve stroke limiter
• Setting numbers 1 to 5
• Frost protection 6°C (43°F)
• Max. sensor temperature 50°C (122°F)
• Hysteresis 0.3 K
• Water temperature influence 0.7 K
• Differential pressure influence 0.3 K
• Closing time 24 minutes

Simple and quick to connect with Hydro Block (H Block)

With the ½” male thread, the H Block’s central connection means you can connect pipes directly to the Vita Eco radiator with additional couplers.

This reduces the risk of leaks and improves the installation speed.

The H Block connects the radiator to the flow and return pipe and has a built-in drain off function, valve isolator and a lock shield for ease of installation and servicing.

• Two H Block configurations are available: with straight connections for pipes coming from the floor or angle connections for pipes coming from the wall.

• The H Block pack also includes a choice of coupling pieces to connect the H Block to the pipes - either 10mm or 15mm

Installers should order a completed unit based on the appropriate H Block variation.

Left or right side valve position

The Vita Eco radiator’s valve can be mounted on either the left or right side without having to adjust the supply and return pipes. (K2 only).

Preset thermostatic valve

The thermostatic valve regulates the water supply in the radiator. This valve is preset in the factory according to the radiator’s size, which guarantees optimum efficiency.

Thermostatic label

Simple and quick to connect with Hydro Block (H Block)
Preset valves - environmentally friendly and energy efficient

Every Vita Eco radiator is equipped with a preset valve, which enhances the efficiency of the system and reduces energy consumption.

This valve is preset in order to control the water flow, producing maximum efficiency at optimum temperature - and is an essential element in the Vita Eco energy saving design.

You can recognise the setting by the coloured valve closure (yellow, white, red, black or blue). The default setting is matched to the heat output of the radiator at system temperatures of both 70/55/20°C and 55/45/20°C.

The benefits
- No extra adjustment time during installation
- Optimal water flow in the radiator
- Higher efficiency of the condensing boiler through lower return temperatures
- Environmentally friendly
- Lower energy costs
- Compliance with Rule EnEV for hydraulic balance

Factory presetting conditions: - heat outputs at 70/55/20°C (Δt = 15°C) - pressure drop Δp = 100mbar

For other system conditions, the valve can be readjusted (or replaced) according to preset tables 4360 and 4361 (using preset key - part of the hardware pack).

In one pipe systems the valve must be fully opened (position 8).
Example:
- Target: pre-setting
- Given:
  - Vita Eco radiator: K1, Height 600, Length 700
  - factory fitted valve: 4361 - preset: 8
  - at 75/65/20°C
  - Δt = 10°C
  - pressure drop: Δp = 100 mbar
  - selected tuning range: 2K (see table)
- Solution: presetting according to table 4361: 8
  Valve needs to be re-adjusted to setting 8

Example:
- Target: pre-setting
- Given:
  - Vita Eco radiator: K2, Height 600, Length 1200
  - factory fitted valve: 4360 - preset: 2
  - at 60/40/20°C
  - Δt = 10°C
  - pressure drop: Δp = 100 mbar
  - selected tuning range: 2K (see table)
- Solution: PRESETTING ACCORDING TO TABLE 4360: 2

Max. 2 K presetting

### Table 4360

<table>
<thead>
<tr>
<th>Q [W]</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>700</th>
<th>800</th>
<th>900</th>
<th>1000</th>
<th>1200</th>
<th>1400</th>
<th>1600</th>
<th>1800</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Max. 2 K presetting

### Table 4361

<table>
<thead>
<tr>
<th>Q [W]</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>700</th>
<th>800</th>
<th>900</th>
<th>1000</th>
<th>1200</th>
<th>1400</th>
<th>1600</th>
<th>1800</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
### Vita Eco

**Pressure drop diagram**

Fine tuning valve 4361

Radiators without connection accessories

---

### Information supplied by Heimeier

**Fine presetting**

<table>
<thead>
<tr>
<th>Radiator with integrated valves without connection fitting</th>
<th>Fine presetting</th>
<th>Presetting range (°C)</th>
<th>Mass flow rate [m³/h]</th>
<th>Presettable range (°C)</th>
<th>Permissible differential pressure (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermostatic insert and thermostatic head</td>
<td>p-band [xp]</td>
<td>2,0 K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kp-Value [m³/h]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kp-Value [m³/h]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flow tolerance ± [%]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>42</td>
<td>42</td>
<td>37</td>
<td>36</td>
<td>35</td>
</tr>
</tbody>
</table>

---

### Calculation example

Target: Setting range

- Heat flow: $Q = 350 \, \text{W}$
- Temperature spread: $\Delta t = 15 \, \text{K}$ (65/50 °C)

Solution: Mass flow rate $m = \frac{Q}{\Delta t} = \frac{350}{15} = 20 \, \text{kg/h}$

---

### Vita Eco

**Pressure drop diagram**

Standard valve 4360

Radiators without connection accessories

---

### Information supplied by Heimeier

**Presetting**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2,0 K</td>
<td></td>
<td></td>
<td>120</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

---

### Calculation example

Target: Setting range

- Heat flow: $Q = 1135 \, \text{W}$
- Temperature spread: $J_t = 10 \, \text{K}$ (65/55 °C)

Solution: Mass flow rate $m = \frac{Q}{J_t} = \frac{1135}{10} = 113.5 \, \text{kg/h}$
**Vita Eco**

**EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442**

Each code includes a radiator of choice, with a hydro block and coupling piece.

For pipes coming from the floor, 2 coupling pieces are available, either 10mm or 15mm to connect the H Block.

2 hydro blocks are available; either straight configuration for pipes coming from the wall or angle configuration for pipes coming from the floor.

Heat source you may wish to consider

Δt50 is the UK’s industry standard for heating outputs, which has an operating temperature of 75/65/20°C. If you have a low temperature heat source you may wish to consider Δt40 or Δt30 output (see your installer or system designer or download from www.stelrad.com).

**Weight (kg/m)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Weight (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>11034</td>
<td>9932</td>
<td>8827</td>
</tr>
<tr>
<td>K2</td>
<td>1136</td>
<td>1136</td>
<td>1737</td>
</tr>
<tr>
<td>K3</td>
<td>1423</td>
<td>1423</td>
<td>1911</td>
</tr>
</tbody>
</table>

Water contents (l/m)

<table>
<thead>
<tr>
<th>Type</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Water contents (l/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>11034</td>
<td>9932</td>
<td>8827</td>
</tr>
<tr>
<td>K2</td>
<td>1136</td>
<td>1136</td>
<td>1737</td>
</tr>
<tr>
<td>K3</td>
<td>1423</td>
<td>1423</td>
<td>1911</td>
</tr>
</tbody>
</table>
Using the mounting template for the bottom connection of Eco radiators offers important advantages during the installation, e.g. leak testing the system without a mounted radiator.

The mounting template replaces the radiator during the installation, which reduces the total installing cost. Finishing tasks such as painting, tiling and applying wallpaper no longer require the removal and remounting of the radiator.

**Vita Eco mounting template**

The radiator is mounted after all the finishing work, which guarantees a pristine condition on commissioning.

The mounting template consists of a bridging piece with 2 connections of ¾” external thread on a centre distance of 50mm. As the wall distance depends on the radiator type, the mounting template offers multiple positions according to the available brackets.
Vita Eco mounting template

1. To mount the template on the wall, the plumbing should have the correct wall distance.

2. Connect the plumbing to the template and conduct the leak test.

3. Once the concrete floor is finished, the L-shaped part (and the extension) can be removed in order to paint, tile, or apply wallpaper.

ATTENTION: the bridging part must remain on the plumbing to prevent pollution of the tubes.

4. Mount the brackets against the wall and remove the bridging part before the radiator can be installed. Note: Brackets should be mounted before removal of the bridging part, to eliminate any possibility of pollution.

ATTENTION: the mounting template has a ¾" ext eurocone thread, for radiators with a ½" INT bottom connection, a ¾" EXT x ¾" EXT piece is necessary.

5. FOR ½" INT - BOTTOM CONNECTION (RIGHT, CENTRE OR LEFT)

The mounting template can be used for tubes coming from the floor, as well as for tubes coming from the wall.

Vita Eco Hydro Block connections

2-pipe connections for bottom connection (½" EXT Eurocone or ¾" INT):

- Lock function
- Straight or angular version
- Maximum operating temperature: 90°C
- Casing in white high performance plastic (similar to RAL 9016)
- Maximum operating pressure: 6 bar

For ¾" EXT Eurocone bottom connection (centre):

- not included
- parts unlock drain function

- not included
- parts unlock drain function

UN: 10mm 363000210A
UN: 15mm 363000215A
- angular version
- with drain

UN: 10mm 363000210S
UN: 15mm 363000215S
- straight version
- with drain
Vita Deco

50°Δt (75/60°C)

<table>
<thead>
<tr>
<th>Type</th>
<th>Length (mm)</th>
<th>Heat output (W)</th>
<th>Price ex VAT</th>
<th>Price inc VAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>1000</td>
<td>360</td>
<td>£120.63</td>
<td>£144.75</td>
</tr>
<tr>
<td>K2</td>
<td>1000</td>
<td>360</td>
<td>£120.63</td>
<td>£144.75</td>
</tr>
</tbody>
</table>

Vita Plan

EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight (kg)</th>
<th>Water content (l/m)</th>
<th>Coefficients</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>1.81</td>
<td>2.53</td>
<td>2.38</td>
</tr>
<tr>
<td>K2</td>
<td>1.81</td>
<td>2.53</td>
<td>2.38</td>
</tr>
</tbody>
</table>

Stelrad Steel Panel Radiator Installation Instructions

Installation of radiator

Open pack and check contents. (Fig 1). It is recommended on all radiator types that the wall brackets are fitted with the wide flange towards the wall. Measure and mark on fixing wall radiator bracket centres, ensure a minimum dimension of a 100-mm clearance is kept at either side of finished radiator position. From the floor to the bottom edge of the bracket a dimension of 200 mm should be used. This will give a correct distance from the floor to the base of radiator for heat output.

Fit the plastic grommets in position on radiator brackets. Remove plastic transit plugs from the two radiator tappings and fit air vent and plug to the preferred top.

NOTE: WHEN FILLING RADIATOR TURN OFF HEATING AND HOTWATER BOILER CONTROLS, SEALED SYSTEMS SHOULD BE REPRESSURISED TO THE CORRECT SYSTEM WORKING PRESSURE.

Potential Hazards / Precautionary Measures

- Consult your employer’s manual handling risk assessments before manually handling any radiators. Due to their bulk or weight,
- Safety:
  - Ensure that all packaging materials are disposed of in a safe and environmentally friendly manner.
- Manual Handling:
  - Due to their bulk or weight, radiators may be difficult to lift - always test the load for weight and seek assistance when lifting heavy or bulky loads.
- Suffocation:
  - Have a low temperature heat source you may wish to consider K1 or K2 output (see your installer or system designer or download from www.stelrad.com).

EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight (kg)</th>
<th>Water content (l/m)</th>
<th>Coefficients</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>1.81</td>
<td>2.53</td>
<td>2.38</td>
</tr>
<tr>
<td>K2</td>
<td>1.81</td>
<td>2.53</td>
<td>2.38</td>
</tr>
</tbody>
</table>

EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442

6/50 is the UK’s industry standard for heating outputs, which has an operating temperature of 75/60°C. If you have a low temperature heat source you may wish to consider 6/40 or 6/30 output (see your installer or system designer or download from www.stelrad.com).
Vita Series

K1 & K2 LUG POSITIONS (New as of June 2016).
All dimensions in mm. Inches in brackets.

<table>
<thead>
<tr>
<th>PANEL HEIGHT</th>
<th>D1</th>
<th>D2</th>
<th>K1</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>33</td>
<td>77</td>
<td>185</td>
<td>185</td>
</tr>
<tr>
<td>400</td>
<td>37</td>
<td>99</td>
<td>225</td>
<td>225</td>
</tr>
<tr>
<td>500</td>
<td>38</td>
<td>100</td>
<td>255</td>
<td>255</td>
</tr>
<tr>
<td>600</td>
<td>40</td>
<td>119</td>
<td>295</td>
<td>295</td>
</tr>
</tbody>
</table>

L2 is the length divided by two.

APPLICATIONS
We recommend that Stelrad steel panel radiators be only used on indirect heating systems. The installation should be in accordance with BS5449 standard. When making soldered joints it is important to choose a flux that is readily soluble in water and kept to the minimum quantity of solder and flux and thoroughly flushed on completion.

INSTALLATION OF RADIATOR

- Manual Handling:
  - Consult your employer’s manual handling risk assessments before manually handling any radiators. Due to their bulk or weight,
  - Ensure that all packaging materials are disposed of in a safe and environmentally friendly manner.

- Safety:
  - Consult your employer’s manual handling risk assessments before manually handling any radiators. Due to their bulk or weight,
  - Ensure that all packaging materials are disposed of in a safe and environmentally friendly manner.

- Potential Hazards / Precautionary Measures:
  - For your own safety it is recommended that you avoid placing your hands/fingers between and down the back of the radiator.

- Pressure Drop

- Piping Options

- Dimensions
  - Height
  - Width
  - Length
  - Thickness
  - Weight

- System Requirements

- Potential Hazards / Precautionary Measures

- System Requirements

- Technical Data

- System Requirements
Vita Ultra

**Ultra is available in 35 colours. See the colour chart which can be found on page 248. Pictured below: Vita Ultra in pale blue. Product is made to order and is on a 6 week lead time.**

### VITA ULTRA TOWEL RAIL BAR

**TOE WAIL RAIL BAR**

**STERLAD UIN**

- 400mm wide  83100004
- 600mm wide  83100006
- 800mm wide  83100008
- 1000mm wide  83100010

---

**EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442**

<table>
<thead>
<tr>
<th>Type</th>
<th>P+</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td>W/m at 75/65/20ºC</td>
<td>1024</td>
<td>1304</td>
</tr>
<tr>
<td>k-coefficients</td>
<td>0.49</td>
<td>0.45</td>
</tr>
<tr>
<td>Heated surface area (m²/m)</td>
<td>431</td>
<td>618</td>
</tr>
<tr>
<td>Weight (g/m)</td>
<td>2911</td>
<td>3018</td>
</tr>
<tr>
<td>Water contents (I/m)</td>
<td>580</td>
<td>757</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

All dimensions in mm. Inches in brackets.

- Mounting on short side of L-bracket
- Mounting on long side of L-bracket

**P+ AND K2 LUGS POSITIONS**

All dimensions in mm. Inches in brackets.

---

For further assistance on colour option UINs and prices, please contact the sales admin team on 0844 543 6200.
NEW Vita Compact Vertical

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>Sections</th>
<th>Stelrad Code</th>
<th>Heat output (W)</th>
<th>Price excl. VAT</th>
<th>Price incl. VAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800</td>
<td>12</td>
<td>09121918</td>
<td>1564</td>
<td>£137.05</td>
<td>£164.46</td>
</tr>
<tr>
<td>500</td>
<td>15</td>
<td>09122519</td>
<td>1980</td>
<td>£150.66</td>
<td>£180.79</td>
</tr>
<tr>
<td>600</td>
<td>18</td>
<td>09123619</td>
<td>2376</td>
<td>£164.91</td>
<td>£197.89</td>
</tr>
</tbody>
</table>

$\Delta t$ is the UK’s industry standard for heating outputs, which has an operating temperature of 75/65/20ºC. If you have a low temperature heat source you may wish to consider $\Delta t_{40}$ or $\Delta t_{30}$ output (see your installer or system designer or download from www.stelrad.com).

**EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442**

<table>
<thead>
<tr>
<th>Type</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1800</td>
</tr>
<tr>
<td>Heat at 75/65/20ºC</td>
<td>3960</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Coefficients</td>
<td>1.33</td>
</tr>
<tr>
<td>Heated surface area (m²/m)</td>
<td>29.80</td>
</tr>
<tr>
<td>Weight (kg/m)</td>
<td>88.80</td>
</tr>
<tr>
<td>Water contents (l/m)</td>
<td>16.20</td>
</tr>
<tr>
<td>Wall to top centre (mm)</td>
<td>65</td>
</tr>
<tr>
<td>$x_1$</td>
<td>21.70</td>
</tr>
</tbody>
</table>

**MOUNTING BRACKETS**

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>H2</th>
<th>H3</th>
<th>H4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800</td>
<td>70</td>
<td>27.6</td>
<td>33.6</td>
</tr>
<tr>
<td>500</td>
<td>70</td>
<td>25.6</td>
<td>31.6</td>
</tr>
<tr>
<td>600</td>
<td>70</td>
<td>25.6</td>
<td>31.6</td>
</tr>
</tbody>
</table>

Comes complete with Stelrad’s class leading safety bracket.

**PIPING OPTIONS**

- Type 10 (P1), 11 (K1)
- Type 21 (P+), 22 (K2)
- Type 33 (K3)
NEW Vita Deco Vertical

**50 Δt**
(75/65/20°C)

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Length mm</th>
<th>Sections</th>
<th>Stelrad UIN</th>
<th>Heat output</th>
<th>Price exc VAT</th>
<th>Price inc VAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800</td>
<td>400</td>
<td>12</td>
<td>89222418</td>
<td>1476</td>
<td>£189.68</td>
<td>£227.62</td>
</tr>
<tr>
<td>500</td>
<td>500</td>
<td>15</td>
<td>89222518</td>
<td>2084</td>
<td>£208.43</td>
<td>£250.12</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
<td>18</td>
<td>89222618</td>
<td>2214</td>
<td>£228.25</td>
<td>£273.90</td>
</tr>
</tbody>
</table>

K2 is the UK’s industry standard for heating outputs, which has an operating temperature of 75/65/20°C. If you have a low temperature heat source you may wish to consider K30 or K35 output (see your installer or system designer or download from www.stelrad.com).

EN 442 CERTIFICATION DATA - CETIAT TESTED
IN ACCORDANCE WITH BS EN 442

<table>
<thead>
<tr>
<th>Type</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1800</td>
</tr>
<tr>
<td>Watts at 75/65/20°C</td>
<td>8490</td>
</tr>
<tr>
<td>n-coefficients</td>
<td>1.32</td>
</tr>
<tr>
<td>Heated surface area (m²/m)</td>
<td>28.90</td>
</tr>
<tr>
<td>Height (kg/m)</td>
<td>105.30</td>
</tr>
<tr>
<td>Water contents (l/m)</td>
<td>15.90</td>
</tr>
<tr>
<td>Wall to tap centre (mm)</td>
<td>77</td>
</tr>
<tr>
<td>K</td>
<td>28.70</td>
</tr>
</tbody>
</table>

WALL MOUNTING INFORMATION
All dimensions in mm. Inches in brackets.

MOUNTING BRACKETS

<table>
<thead>
<tr>
<th>Height</th>
<th>H2</th>
<th>H3</th>
<th>H4</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>1800</td>
<td>70.90</td>
<td>70</td>
<td>2.75</td>
</tr>
</tbody>
</table>

PRESSURE DROPS

<table>
<thead>
<tr>
<th>FLOWRATE</th>
<th>kPA</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.000</td>
<td>0,11</td>
<td>10 100</td>
</tr>
<tr>
<td>10.000</td>
<td>0,1</td>
<td>10 100</td>
</tr>
</tbody>
</table>

PIPING OPTIONS

- Type 10 (P1), 11 (K1)
- Type 21 (P+), 22 (K2)
- Type 33 (K3)

Comes complete with Stelrad’s class leading safety bracket.
NEW Vita Plan Vertical

**50 Δt**
(75/65/20°C)

---

### K2

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>Sections</th>
<th>Stelrad (kg)</th>
<th>Heat output (Watts)</th>
<th>Price (exc VAT)</th>
<th>Price (inc VAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800</td>
<td>12</td>
<td>18922610</td>
<td>1676</td>
<td>6296.98</td>
<td>7686.03</td>
</tr>
<tr>
<td>1800</td>
<td>15</td>
<td>18922610</td>
<td>1846</td>
<td>6286.69</td>
<td>7671.23</td>
</tr>
<tr>
<td>1800</td>
<td>19</td>
<td>18922610</td>
<td>2214</td>
<td>6288.11</td>
<td>7676.31</td>
</tr>
</tbody>
</table>

Δt50 is the UK's industry standard for heating outputs, which has an operating temperature of 75/65/20°C. If you have a low temperature heat source you may wish to consider Δt40 or Δt30 output (see your installer or system designer or download from www.stelrad.com).

---

### EN 442 CERTIFICATION DATA - CETIAT TESTED IN ACCORDANCE WITH BS EN 442

<table>
<thead>
<tr>
<th>Type</th>
<th>K2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Type
- K2
- K3
- K4

#### Height (mm)
- 1800
- 1500
- 1200
- 900
- 600

#### Heated surface area (m²/m)
- 3890

#### n-coefficients
- 1.19

#### Heated section (mm)
- 59.90

#### Water content (l/m)
- 159.90

#### Wall to tap centre (mm)
- 77

#### K
- 28.70

---

### MOUNTING BRACKETS

<table>
<thead>
<tr>
<th>Height</th>
<th>H2</th>
<th>H3</th>
<th>H4</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>1800</td>
<td>70.67</td>
<td>70</td>
<td>2.75</td>
</tr>
<tr>
<td>1500</td>
<td>65.69</td>
<td>65.69</td>
<td>1543</td>
</tr>
</tbody>
</table>

---

### WALL MOUNTING INFORMATION

All dimensions in mm. Inches in brackets.

 Comes complete with Stelrad's class leading safety bracket.

---

### PRESSURE DROPS

---

### PIPING OPTIONS

---
Colour Guide

A shade for every room, for every interior. Opt for warm elegance, baroque ambience or modern minimalism.

Colour information for the: Vita Series - Vita Ultra

Natural Colours

- NT110 Papyrus white
- NT120 Pearl white
- NT130 Champagne
- NT140 Beige
- NT150 Beige grey
- NT160 Pebble grey
- NT170 Quartz grey

- SN110 Cream white
- SN120 Cream
- SN130 Mocca
- SN140 Bordeaux
- SN150 Sepia
- SN160 Pale blue
- SN170 Black

Metallic Colours

- ML110 Dove grey
- ML120 Titanium grey
- ML130 Blue grey
- ML140 Grantee
- ML150 Cappuccino
- ML160 Terra brown
- ML170 Graphite black

RAL Colours

- A1004 Golden yellow
- A2003 Pastel orange
- A3002 Carmine red
- A3003 Robin red
- A5002 Ultramarine blue
- A6018 Yellow green
- A7001 Silver grey
- A7011 Iron grey
- A7016 Anthracite grey
- A7030 Stone grey
- A7035 Light grey
- A8017 Chocolate brown
- A9003 Signal white
- A9005 Jet black

RAL 9016**
Traffic white comes as standard on all radiators.

Stelrad Radiators are available in white (RAL 9016) as standard, however the specific Radiators identified are now available in a variety of colours. The colours shown are reproduced as accurately as this process will allow and can be made to order on the identified products.

All colour Radiators have up to a 6 week lead time, and when a coloured Radiator or Radiators have been ordered they cannot be cancelled or returned. To request a colour chart please email marketing@stelrad.com
Btu/hr  British Thermal Unit per hour is the standard measurement used to state the amount of output of any heat generating device.

Watts  Is another measurement for heat output, 1 watt is equivalent to 3.412 Btu/hr.

P1  Also known as Type 10, is a type of radiator with 1 radiator panel and no convection fins.

K1  Also known as Type 11, is a type of radiator with 1 radiator panel and 1 set of convection fins.

P+  Also known as Type 21, is a type of radiator with 2 radiator panels and 1 set of convection fins.

K2  Also known as Type 22, is a type of radiator with 2 radiator panels and 2 sets of convection fins.

K3  Also known as Type 33, is a type of radiator with 3 radiator panels and 3 sets of convection fins.

∆t  Refers to the difference in temperature between the water circulating in the central heating system and that of the ambient temperature. It is important to use the correct ∆t when selecting your radiators, as the same radiator will have different outputs at different water temperatures.

∆t50  ∆t50 is the UK standard, however Stelrad also quote at lower levels for lower water temperature systems.

Heat loss  Is the amount of heat a room loses, it is therefore an important calculation when determining what size radiator is required to heat a room to the correct level.

UIN  Is the Stelrad product identification code.

Warranty  The warranty covers any defect that is attributable to a manufacturing, assembly or material fault, further details available on request.

ISO14001  Is a set of International regulations related to the environment.

ISO9001  Is a set of International regulations related to quality management systems.

OHSAS18001  Is a set of International regulations related to health and safety.

TBOE / BOE  Refers to which position the pipes are connected to the radiator, OE means opposite end i.e. 1 pipe on each side, TB is top bottom i.e. 1 pipe is connected to the top and 1 to the bottom, B is both pipes connected to the bottom.

CETIAT tested  A leading independent French laboratory which conducts testing and assessments.

EN 442  is the European standard which defines the manufacturing standards for radiators and convector which operate at temperatures of less than 120°C. The standard defines the type of steel which must be used, the type of pressure testing which must be carried out and the accuracy of the heat outputs quoted in the literature.

The Stelrad Technically Advanced Radiator System heatloss calculator, offers an even simpler way to get sizing of radiators right, first time. Visit www.starsapp.co.uk

KIWA  Kiwa Ltd is an energy consultancy, Notified Body, UKAS-accredited testing lab and training centre with expertise in gas, oil, solid fuel, biomass and other renewables, construction materials, water and electricity.


All colour radiators have a 6 week lead time. All radiators with this logo are made to order.

RAL  A European wide colour matching system.

BSP  British Standard Piping.