

Board School 3 Column Cast Iron Radiator

The deeper rounded-top Board School pattern, 200 mm · four heights, 520 to 920 mm



The Board School 3 column has the rounded, pinched tops of the radiators fitted in Victorian board schools and chapels, with a third column for more heat from the same length of wall.

It is the pattern for large schoolrooms, chapels, halls and their conversions, and for any room where a heat pump calls for more surface. At 200 mm deep it is 20 mm deeper than the 2 column.

Choosing a height

The 520 mm height fits beneath window boards. The 620 and 720 mm heights suit most walls. The 920 mm height gives 176 W per section at $\Delta T50$ for tall rooms and long walls.

Boilers and heat pumps

Outputs are published at $\Delta T50$, which suits a conventional boiler. At the $\Delta T30$ typical of a heat pump each section gives about half its rated output, so size each radiator at the temperature the system will actually run at. The mass of cast iron suits long, steady, low-temperature running.

Finishes

Primer is the usual choice on conservation work: the radiator arrives ready to be painted on site, so it can match the room's joinery or a historic scheme in the same paint system. Lead time is typically 14 days.

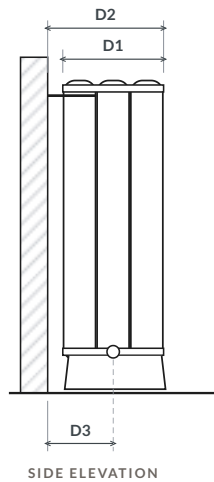
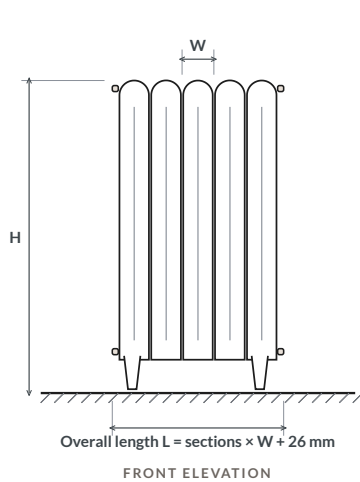
Factory colour arrives finished and ready to fit, typically in two to three weeks. Choose from our standard colour range; we will send the colour chart on request.

Do not powder coat. Powder coating invalidates the guarantee.

At a glance

Pattern	Three-column, rounded pinched tops
Heights	520, 620, 720 and 920 mm
Depth	200 mm (three columns)
Output	97 to 176 W per section at $\Delta T50$
Sections	3 to 30 per radiator; factory built up to 15 (10 at 720 and 920 mm)
Test standard	Outputs to BS EN 442
Pressure	6 bar working, 7.8 bar test
Connections	½" BSP
Mounting	Floor-standing; fixing details confirmed with your order
Finish	Primer for site painting, or a factory colour
Guarantee	10 years against manufacturing defects

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KEY · ALL DIMENSIONS IN mm

- H** Overall height
520 · 620 · 720 · 920 mm
- W** Section width
80 mm
- D1** Depth of radiator
200 mm
- D2** Wall to front face
230 or 240* mm
- D3** Wall to pipe centre
130 or 140* mm

* depends on wall tie / bracket used - schematic, not to scale

Data by height

Height H (mm)	Section width W (mm)	Output per section $\Delta T50$ (W)	Output per section $\Delta T30$ (W)	Dry weight per section (kg)	Water content per section (L)	Max factory-built sections	Tuscan code
520	80	97	50.0	9.00	2.10	15	BS3-52
620	80	119	61.3	10.52	2.60	15	BS3-62
720	80	138	71.1	12.64	2.90	10	BS3-72
920	80	176	90.6	16.18	3.80	10	BS3-92

Radiator output by number of sections

Sections	Overall length L (mm)		Height H (mm)			
	W 80		520	620	720	920
4	346		388	476	552	704
6	506		582	714	828	1,056
8	666		776	952	1,104	1,408
10	826		970	1,190	1,380	1,760
12	986		1,164	1,428	1,656	2,112
15	1,226		1,455	1,785	2,070	2,640
20	1,626		1,940	2,380	2,760	3,520

Any number of sections from 3 to 30. Outputs to BS EN 442 at 75/65/20 °C. All heights W 80.

Correction

Mean ΔT	Factor
$\Delta T30$	0.515
$\Delta T35$	0.629
$\Delta T40$	0.748
$\Delta T45$	0.872
$\Delta T50$	1.000
$\Delta T55$	1.132
$\Delta T60$	1.267

Multiply $\Delta T50$ output by the factor. Exponent $n = 1.3$.

Mounting and fixing

- Floor-standing. Wall ties and fixing details are confirmed with your order.
- Radiators over the factory-built limit are joined on site.
- Allow ± 2 mm tolerance per section; set valve tails once the radiator is on site.
- Closed heating systems only. Flush and dose with inhibitor to BS EN 12828 and BS 7593.
- Valves sold separately: Kentwell and Chartwell angled valve sets.

Model specification clause

Cast iron radiators: Tuscan Foundry Products Board School 3 column cast iron radiator, rounded-top pattern, outputs tested to BS EN 442.

Height: 520 / 620 / 720 / 920 mm floor-standing.

Depth: 200 mm. Sections: ; overall length mm.

Output: W at $\Delta T50$ / W at design ΔT .

Finish: factory primer for site painting or factory colour .

Connections: ½" BSP with plugs, bushes and air vent. Working pressure 6 bar.

Valves: Tuscan Foundry Kentwell / Chartwell angled valve set, finish .

Install to manufacturer's instructions. Do not powder coat.

Send us room heat losses and we will prepare a radiator schedule: section counts, lengths and outputs at boiler and heat pump temperatures. Call 0333 987 4452.