

Cast Iron Radiators

Specification Guide 2026

For architects, conservation officers, heating designers and owners of listed and period buildings

History in the Making.

ABOUT THIS GUIDE

This guide gives the dimensions, heat outputs and specification details for the Tuscan Foundry Products range of cast iron column radiators. It replaces our 2020 brochures, price lists and installer guides. Current prices are shown on each product page at tuscanfoundry.com.

Every radiator is built to order from individual cast iron sections, so it can be made to the length and output each room needs. All radiators are pressure tested before dispatch and carry a 10-year manufacturer's guarantee against defects.

THE RANGE AT A GLANCE

Range	Columns	Heights (mm)	Section width	Depth	Output per section, $\Delta T50$
Victorian 4-column	4	353, 485, 636, 785, 935	50 / 55mm	140mm	40.8–116.4W
Edwardian 2-column	2	490, 640, 740, 1040	60mm	70mm	41–74W
Edwardian 6-column	6	485, 660, 760, 960	60mm	221mm	95.3–197W
Board School 2-column	2	520, 620, 720, 920	80mm	180mm	86–161W
Board School 3-column	3	520, 620, 720, 920	80mm	200mm	97–176W
Nouveau	2	510, 660, 760, 954	76mm	203mm	74–151W
Powis	2	838	76mm	214mm	136W
Tredegar	3	760	78mm	250mm	180W

RANGE DETAILS

Victorian 4-column

The classic four-column radiator of the late Victorian house: square-edged columns and a plain face. Floor-standing on integrated feet as standard; wall-hung on request (heights 65mm lower).

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
353mm	50mm	140mm	40.8W	21W	20 sections
485mm	50mm	140mm	58.2W	30W	20 sections
636mm	50mm	140mm	75.4W	39W	20 sections
785mm	55mm	140mm	98.3W	51W	20 sections
935mm	55mm	140mm	116.4W	60W	17 sections

Length = number of sections × section width + 24mm for the reducing bushes.

Edwardian 2-column

The plain column radiator of the 1900s at its slimmest: only 70mm deep, for halls, passages and window reveals.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
490mm	60mm	70mm	41W	21W	20 sections
640mm	60mm	70mm	46W	24W	20 sections
740mm	60mm	70mm	62W	32W	20 sections
1040mm	60mm	70mm	74W	38W	17 sections

Length = number of sections × section width + 26mm for the reducing bushes.

Edwardian 6-column

The deepest column radiator in the range, 221mm, giving the highest output per metre of wall. The first choice when sizing for a heat pump.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
485mm	60mm	221mm	95.3W	49W	17 sections
660mm	60mm	221mm	133W	68W	17 sections
760mm	60mm	221mm	151W	78W	15 sections
960mm	60mm	221mm	197W	101W	10 sections

Length = number of sections × section width + 26mm for the reducing bushes.

Board School 2-column

The rounded-top radiator of the Victorian board schools built after 1870, with a pinched top and crisp line detail.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
520mm	80mm	180mm	86W	44W	15 sections
620mm	80mm	180mm	103W	53W	15 sections
720mm	80mm	180mm	124W	64W	15 sections
920mm	80mm	180mm	161W	83W	10 sections

Length = number of sections × section width + 26mm for the reducing bushes.

Board School 3-column

The three-column Board School, 200mm deep, for higher output in larger rooms.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
520mm	80mm	200mm	97W	50W	15 sections
620mm	80mm	200mm	119W	61W	15 sections
720mm	80mm	200mm	138W	71W	10 sections
920mm	80mm	200mm	176W	91W	10 sections

Length = number of sections × section width + 26mm for the reducing bushes.

Nouveau

Scrolled relief on every section and Victorian proportions: a radiator to show, not hide. The lower heights sit beneath a dado rail.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
510mm	76mm	203mm	74W	38W	15 sections
660mm	76mm	203mm	111W	57W	15 sections
760mm	76mm	203mm	121W	62W	15 sections
954mm	76mm	203mm	151W	78W	15 sections

Length = number of sections × section width + 24mm for the reducing bushes.

Powis

Our most ornate radiator, named after Powis Castle. A richly scrolled two-column pattern with a rounded top, for drawing rooms, libraries and principal staircases.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
838mm	76mm	214mm	136W	70W	15 sections

Length = number of sections × section width + 24mm for the reducing bushes.

Tredegar

Named after Tredegar House, Newport. An ornate three-column radiator whose extra central column gives more heat than any other decorative pattern in the range.

Height	Section width	Depth	Output per section $\Delta T50$	Approx. output $\Delta T30$	Factory-built up to
760mm	78mm	250mm	180W	93W	15 sections

Length = number of sections × section width + 24mm for the reducing bushes.

SIZING RADIATORS

Heat outputs are tested to BS EN 442 at $\Delta T50$: the difference between the mean water temperature and a 20°C room. A conventional boiler running at 75/65°C works at about $\Delta T50$. To size a radiator, divide the room's design heat loss by the output per section and round up.

Worked example. A drawing room with a heat loss of 1,800W, using the 785mm Victorian (98.3W per section at $\Delta T50$): $1,800 \div 98.3 = 18.3$, so 19 sections. Length = $19 \times 55\text{mm} + 24\text{mm} = 1,069\text{mm}$.

Heat pumps and low flow temperatures

Heat pumps run at lower water temperatures, so each section gives less heat. At $\Delta T30$ (around 50°C mean water in a 20°C room) a section gives about half its $\Delta T50$ output. Many period houses moving to a heat pump need more radiator surface, not less. Cast iron's thermal mass suits the long, steady running a heat pump prefers.

ΔT (°C)	60	55	50	45	40	35	30
Correction factor	1.267	1.132	1.000	0.872	0.748	0.629	0.515

Multiply the $\Delta T50$ output by the factor for your design ΔT . Factors use an averaged radiator exponent of 1.30; we can supply model-specific figures for a radiator schedule.

Radiator schedule service

Send us room-by-room heat losses, or book a site survey, and we will return a radiator schedule with model, section count, length and output at both boiler and heat pump temperatures, ready for your heating engineer or quantity surveyor to price.

ASSEMBLY, DELIVERY AND INSTALLATION

- Radiators are factory-built up to the length shown for each model. Longer radiators are supplied in factory-built lengths with the parts and instructions for joining on site; a joining key is supplied on a sale-or-return basis.
- Allow a manufacturing tolerance of $\pm 2\text{mm}$ per section. Do not set pipework until the radiator has been delivered.
- Floor-standing radiators have integrated foot sections: two feet up to 20 sections, three for odd lengths of 21–39 sections and four for even lengths of 22–40 sections. Wall ties are supplied for stability. Wall-mounted versions are supplied with brackets: 4 up to 17 sections, 6 for 18–31 and 8 for 32–40 sections.
- Each radiator is supplied with plugs, bushes and an air vent. Connections are $\frac{1}{2}$ " BSP as standard, with $\frac{3}{4}$ " or 1" available; bottom-opposite-end connection is standard.
- Maximum working pressure 6 bar. For use on closed heating systems only. The system must be flushed and dosed with a corrosion inhibitor in line with BS 7593; failure to do so will void the guarantee.
- Cast iron is sand cast, so slight variations in surface and edge are normal and are part of the character of a period radiator. Do not powder coat radiators after delivery.

FINISHES

Finish	Description	Lead time
Primer	Grey primer, ready for painting on site with a good-quality metal or radiator paint.	About 1 week
Factory colour	20 standard colours, from Traffic White and Cream White to Anthracite, Black, Pewter, Gun Metal, Old Penny, Bronze and Natural Cast Iron.	2–3 weeks
Special effects	7 finishes including Stone, Chrome Effect, Brass, Black Chrome, Rose Gold and Corten.	2–3 weeks
Colour match	Matched to any paint reference, for example to joinery or a conservation colour scheme.	2–3 weeks

VALVES AND ACCESSORIES

Traditional angled valve sets in manual and thermostatic versions, for 15mm copper pipe ($\frac{1}{2}$ " and $\frac{3}{4}$ " BSP on request):

- Kentwell: polished brass, chrome, antique brass, satin, antique copper and black nickel.
- Chartwell: brass, anthracite and black nickel.

Wall stays, pipe sleeving kits and decorative air vents are available to match. Stocked finishes are dispatched in 2–3 days; others take 3–4 weeks.

LISTED BUILDINGS

Replacing or adding radiators in a listed building may need listed building consent, particularly where original radiators, pipe runs or fabric are affected. Discuss the proposal with the local conservation officer early. We can provide drawings, data and specification wording to support an application.

Model specification clause

Radiators: cast iron sectional column radiators by Tuscan Foundry Products, [range] pattern, [height]mm high, [number] sections, [floor-standing on integrated feet / wall-mounted on brackets]. Output not less than []W at ΔT [] to BS EN 442. Connections $\frac{1}{2}$ " BSP, bottom opposite ends. Finish: [primer for site painting / factory colour to match [reference]]. Valves: [Kentwell / Chartwell] angled thermostatic and lockshield set, [finish]. Maximum working pressure 6 bar. System to be flushed and inhibited to BS 7593.

CONTACT

For a radiator schedule, a site survey or a project quotation, call 0333 987 4452 or use the contact form at tuscanfoundry.com.

Technical data correct at October 2026. We reserve the right to change specifications without notice.