

STEEL PANEL RADIATOR

Hydronic heating for distribution and project supply



CLEAN FINISH

ROUNDED EDGES

HIGH-DENSITY FINS

PROJECT READY

Product Overview

Designed for overseas distribution, project supply and hydronic heating applications.

Built for distribution and project supply, SOODIA steel panel radiators combine an integrated top cover and side panels with rounded edges, a clean flat-panel appearance and high-density convection fins. Designed for hydronic heating systems, the range provides a consistent finish for residential and commercial projects.

Key Features

- Integrated top cover and side panels
- Rounded corners with no sharp edges
- Flat-panel construction with a clean, consistent finish
- High-density convection fins for effective heat transfer

Typical Applications

Residential buildings, villas, hospitals, schools and public-service areas.



Operating Conditions

Heat-transfer medium	Hot water only; not suitable for steam heating
Maximum water temperature	95 C
Maximum operating pressure	0.6 MPa
Reference heat output	SGB-22-600/1000: 1488 W at 70/55/18 C; Delta T = 44.5 C
System arrangements	One-pipe, two-pipe, manifold/radial and gravity hot-water circulation systems

Application limitation

Do not install in high-humidity or corrosive-risk locations such as bathrooms, bathhouses, car-wash areas, cold stores or food-processing areas.

Product Details

Close-up views of the casing, rounded edge treatment, top grille and air vent detail.



Air vent and side panel



Rounded side-panel detail



Top grille and cover



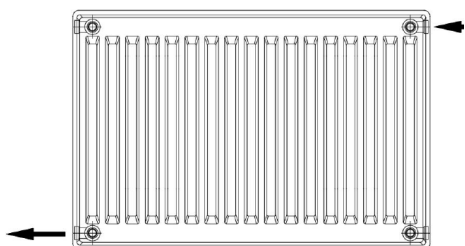
Integrated casing detail

Installation & Connections

Core installation requirements and approved connection arrangements from the supplied manual.

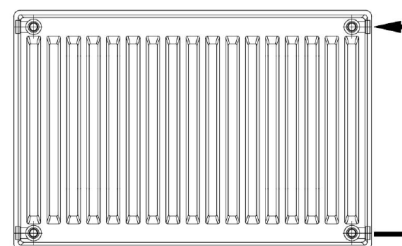
1. Installation must be carried out by qualified personnel.
2. Maintain at least 150 mm clearance between the radiator and the finished floor.
3. The mounting surface must be capable of supporting at least three times the radiator weight.
4. Use the matching BSP thread specification at each connection. Apply thread-sealing tape evenly before tightening.
5. Where freezing is not a risk, install a valve on both the inlet and outlet connections.
6. Measure and drill bracket fixing points accurately to ensure secure mounting.
7. Use only in systems with an operating pressure below 0.6 MPa.
8. Keep the heating system filled with water during normal service, subject to the winter freeze-protection requirements.

Connection Options



Opposite-side connection

Top inlet / bottom outlet



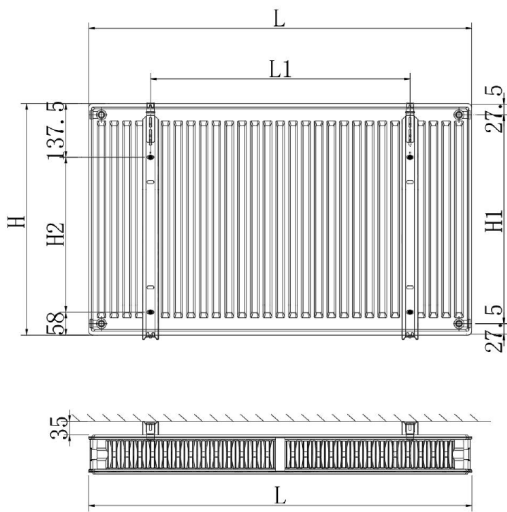
Same-side connection

Top inlet / bottom outlet

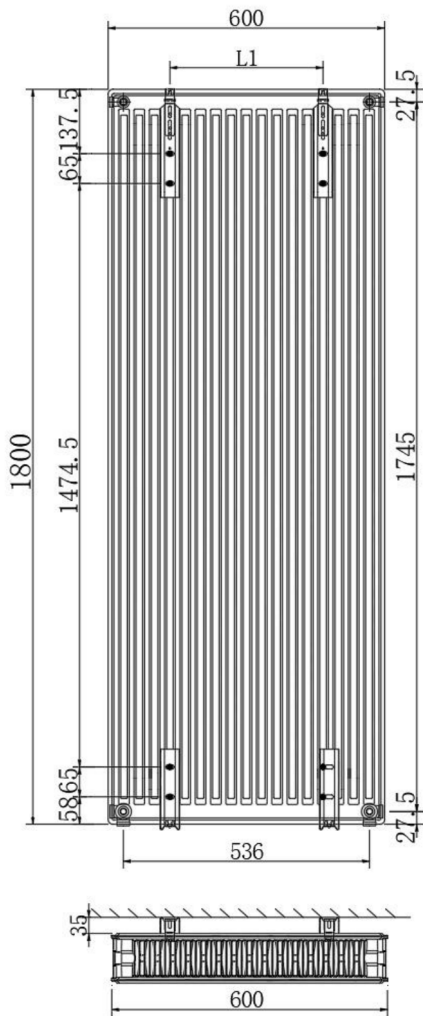
Mounting Dimensions

Original dimension drawings retained; only the surrounding titles and explanatory text have been translated.

Horizontal radiator



Vertical radiator



Size References

H	300, 400, 500, 600, 900 mm
L	600, 800, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000 mm
L1	Adjust according to radiator length
H1	H - 55 mm
H2	H - 195.5 mm

Drawing note
Dimension values shown in the drawings are reproduced from the supplied Chinese manual and have not been redrawn by AI.

Water Quality & Maintenance

Water-quality limits and maintenance instructions for the steel radiator system.

Water Quality Limits

Parameter	Make-up water	Circulating water
pH at 25 C	7.0 - 12.0	9.5 - 12.0
Turbidity	<= 3 NTU	<= 10 NTU
Conductivity at 25 C	<= 600 uS/cm	<= 800 uS/cm
Chloride (Cl ⁻)	<= 250 mg/L	<= 250 mg/L
Total iron	<= 0.3 mg/L	<= 1.0 mg/L
Total copper	-	<= 0.1 mg/L
Calcium hardness as CaCO ₃	<= 80 mg/L	<= 80 mg/L
Dissolved oxygen	-	<= 0.1 mg/L
Organic phosphorus as P	-	<= 0.5 mg/L

Maintenance & Warnings

- Keep the heating system filled with water. Do not routinely drain the system.
- Drain only the amount of water required for repair, equipment replacement or fault correction. Refill immediately after maintenance.
- Each radiator must have inlet and outlet valves installed.
- After installation, non-qualified personnel must not alter, remove or rotate the radiator and connected pipework; loose joints may cause leakage.
- If the system will not operate in winter and freezing cannot be prevented, drain it completely. Remove trapped water from dead legs where necessary.

IMPORTANT

Confirm project-specific dimensions, connection specifications and local compliance requirements before ordering or installation.